Page 1

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF CALIFORNIA

IN RE PETITION OF NL INDUSTRIES, ) INC. TO PERPETUATE THE TESTIMONY ) OF FRED OBERLIN )

) Civil Action No. ) CV 12 80 169 MISC EMC

OCTOBER 9, 2012

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Videotaped Deposition of FRED E.

OBERLIN, held at 2603 Main Street, 9th Floor,

Irvine, California, beginning at 10:09 a.m. on
the above date, before Kimberly S. Thrall, a

Registered Professional Reporter and Certified

Shorthand Reporter.

Golkow Technologies, Inc. 877.370.3377 ph | 917.591.5672 fax deps@golkow.com

## Fred E. Oberlin

	Page 2			Page 4
1 APPEARANCI		1	EV A MINI A TION INDEV	1 250 1
2 FOR THE PET	ITIONER NL INDUSTRIES, INC.:	1	EXAMINATION INDEX	DACE
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1 APPEARING TI	ELEPHONICALLY:	1	DEPOSITION SUPPORT INDEX	
2 FOR UNIVAR U		2		
3 VERIS LAW (	GROUP PLLC LE ULICK ROSENTHAL, ESQUIRE	3	DIRECTION TO WITNESS NOT TO A	NSWFR
	Avenue, Suite 1400	4	(None)	NO WER
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5 (206) 535-6006 michelle@veri		6	DEOLIEST FOR PRODUCTION OF DO	CLIMENTE
6	siawgroup.com		REQUEST FOR PRODUCTION OF DO	CUMENIS
	COMPANY and PENNZOIL-QUAKER STATE COMPANY		(None)	
8 SHELL OIL C BY: KIMBER	OMPANY LY Z. LESNIAK, ESQUIRE	8		
9 P.O. Box 2463	E. E. EDITH III, LOQUINE	9	STIPULATIONS	
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11		12	QUESTIONS CERTIFIED	
	OORE PAINT COMPANY, INC.:	13	(None)	
12 KELLY-MOO	RE PAINT COMPANY, INC.	14		
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2 (Pages 2 to 5)

Page 6	Page 8
1 IRVINE, CALIFORNIA; TUESDAY, OCTOBER 9, 2012 1	Q. What's your date of birth, Mr. Oberlin?
	A. 5/12/1919.
	Q. Do you currently have any medical conditions
	at would affect your ability to recall events or
	stify today?
	A. Not that I know of.
	Q. Are you currently taking any medication that
	ould affect your ability to testify today?
	A. No.
10 NL Industries, Inc., to Perpetuate the Testimony of Fred 10	Q. Okay. Before we get started, I would like to
11 Oberlin. Civil Action No. CV 12 80 169 MISC EMC, for 11 go	through some instructions with you. Okay? The first
	you understand you're under oath and it's the same
13 District of California. The deponent is Fred Oberlin. 13 oa	th that you would take in a court of law?
14 Counsel and all present, will you please 14	A. Yes.
15 identify yourselves. 15	Q. If at any point today you need to take a break
16 MS. O'BRIEN: Jillisa O'Brien as counsel for 16 for	r any reason, please let me know. I'm happy to
17 Mr. Fred Oberlin. 17 acc	commodate breaks. It's not an endurance test. You
18 MR. EDELSTEIN: David Edelstein, Archer & 18 alr	ready want to take one. Okay?
19 Greiner on behalf of NL Industries. 19	A. Yes.
20 MS. THOMAS: Tracee Thomas, NL Industries. 20	Q. Let us know. Because everything is being
21 MR. van AELSTYN: Nico van Aelstyn of Beveridge 21 tra	anscribed today, I ask that you please let me finish
22 & Diamond on behalf of the Yosemite Slough PRP Group. 22 mg	y question before you answer it. I'll do my best not
	talk over you when you're answering. And if you can
	t me finish my question so that we get a clear record.
25 Rosenthal with Univar USA Inc. 25 Ol	kay?
Page 7	Page 9
1 MS. LESNIAK: Kimberly Lesniak for Shell Oil 1	A. (Witness nods head.)
	Q. If you don't hear or understand something I ask
	day, if I talk too fast or it's a confusing question,
	ease let me know. I want to make sure you heard and
	nderstood the questions I intended. Okay?
	A. Yes.
	Q. Okay. If at any point today there's an
	ojection, please let us work out the objection before
	ou answer. It may be that it's okay to answer. It may
	that you're not supposed to answer that question.
	A. Yes.
· ·	Q. Okay. Can you briefly describe for me your
	lucational background?
	A. I attended Fenn College in Cleveland for
	oproximately four years at night.
-	Q. When did you attend college?
_	A. I think it was 1937 to 1941, but I'm not
_	ositive at this stage.
	Q. Okay. Did you go directly from high school to
	ollege?
	A. Pretty much, yes.
	Q. Okay. Did you work in between high school and
23 Can you please state and spell your name for 23	
	ollege?

Page 10 Page 12 Q. Okay. Did you have a major while you were in 1 1 This was during World War II. We also made 2 college or a course of study that you were focusing on? 2 paints for --3 3 A. Chemical engineering. Q. I'm sorry. You made paints for something? 4 4 A. For -- for governmental paints. Q. What classes were you taking? 5 5 A. I was taking -- I had four different chemistry Q. Okay. What kind of paints were those? 6 classes -- courses: General, quantitative analysis, 6 A. Paints for shells. Paints for pipelines. 7 qualitative analysis through organic chemistry. 7 Q. Were these oil-based paints? water-based 8 Q. You indicated that you were going to school at 8 paints? 9 9 night. Were you also working while you were in college? A. They were, at that time, it was all oil base. 10 A. Yes. 10 I shouldn't say oil based, they were solvent based. 11 Q. Where were you working? 11 Q. Okay. Did you have any involvement in the 12 12 A. At first I was working at Ferro- -- at Reilly paint-production process at Ferro Corporation? 13 Tar -- Tar & Chemical Company. 13 A. Production, no. But the produc- -- or the 14 Q. Can you do us a favor and spell that for the 14 manufacture of the paints, I was formulating some of 15 15 court reporter if you can? them. 16 A. R-e-i-l-l-y; Tar, T-a-r; and Chemical. 16 Q. You were working in the lab helping to develop 17 Q. What were you doing at Reilly Tar & Chemical? 17 the formulations for the paints that --18 A. I was working in their laboratory testing 18 A. Correct. 19 19 finished product. Q. -- were being processed? 20 Q. What products did Reilly Tar & Chemical 20 A. Correct. 21 21 Q. Did you have any involvement in production for 22 A. Well, they processed the coal tar that came 22 the baking enamels? 23 from the coal tar coke ovens in Cleveland to make road 23 A. Yes. 24 tar all the way through to making various chemicals. 2.4 Q. You were actually --25 Some of it even went as far as being submedicinal. 25 A. Not the production. Page 11 Page 13 1 Q. When you say you were testing finished product, 1 O. Again, in the lab --2 what did that entail? 2 A. Again in the laboratory. Development. 3 A. Checking viscosity, checking boiling points, 3 MS. O'BRIEN: Let him finish the question 4 checking melting points, checking carbon composition of 4 before you start talking. 5 5 coke. THE WITNESS: I'm sorry. MS. O'BRIEN: No, no, no. I just want to make 6 Q. Were you doing any R&D in that lab or was it 6 7 7 all finished-product testing? sure we have a clean record. No criticism. 8 8 BY MR. EDELSTEIN: A. It was all finished-product testing. 9 Q. Were you involved in any way in the processing 9 Q. And that's my fault as much as it is yours. So 10 of the coal tar or the development of the process? 10 I'll do better, also. I promise. 11 11 Did you have any involvement in the production A. No. 12 Q. How long were you at Reilly Tar & Chemical? 12 of the porcelain enamels? 13 A. I think it was two years. 13 A. No. 14 Q. Did you start working somewhere else after 14 Q. In the lab, were you helping develop 15 Reilly Tar & Chemical? 15 formulations for the porcelain enamels? 16 A. I started working at Ferro Corporation, 16 A. No. 17 F-e-r-r-o. 17 Q. If I understand correctly, then, you were in 18 Q. Was that also in Cleveland? 18 the lab helping develop formulations for the baking 19 A. Yes. 19 enamels and the paints? 20 Q. What did Ferro Corporation do? 20 21 A. Their basic product was making porcelain enamel 21 Q. Okay. Did you primarily work with respect to 22 for home goods. However, I worked in a department they 22 one of those two products, the baking enamels versus the 23 called VEDOC, versatile economical durable organic 23 24 coatings was the making of baking enamels for washing 24 I didn't understand. 25 machines, refrigerators, and that type of goods. Q. Sure. Was your time equally spent developing

Page 14 Page 16 the formulations for the baking enamels and the paints? 1 1 A. The basic trade name of the company was -- for 2 A. It depended upon the time of the year or the 2 that division was VEDOC. 3 3 Q. Okay. While you were at Ferro Corporation, year. 4 were you involved in any trade associations or 4 Q. Okay. 5 5 A. Whether we were in domestic production or war organizations? 6 6 A. I was a member of the Cleveland Society for production. 7 7 Q. Okay. During the period of time you were in Coatings Technology. 8 8 Q. Cleveland Society for Coating Technology? war production, were you primarily focused on the 9 formulate -- developing the formulations for the paints? 9 A. Yes. 10 A. Yes. To meet federal specifications. 10 Q. What was that? 11 Q. Was that through -- were you involved in that 11 A. It was an organization of the various chemists 12 process throughout the war? 12 in the Cleveland area that would meet on a monthly basis 13 A. Pretty much, yes. 13 to hear technical papers and so forth. 14 Q. Okay. Can you describe the different materials 14 Q. And was this society focused primarily on the 15 that were used in the paints that were being produced by 15 development of baking enamels and paints? 16 16 A. Basically it was the entire paint industry. Ferro Corporation? 17 A. The industrial paints were baked enamels made 17 Q. Did it put out a publication? 18 from alkyne resins, urea formaldehyde, melamine 18 A. I didn't understand that fully. 19 formaldehyde, solvents of course. 19 Q. Sure. How frequently did the society meet? 20 Q. These are the baking enamels --20 A. Once a month. 21 A. Baking enamels, yes. 21 Q. And as part of those meetings, was a trade 22 22 publication developed or newsletters developed? Q. -- that you described? 23 What about the paints that were being developed 23 A. I don't recall. 2.4 for the military? Do you know what products were used 2.4 Q. Okay. Other than that society, were you 25 in the development of those? What raw materials were 25 involved in any other trade associations or trade Page 15 Page 17 1 used in the formulations for the paints the -- that were 1 organizations? 2 used by the military? 2 A. Not in the Cleveland area. 3 A. Generally, they were mostly alkyds. 3 Q. Okay. How about -- oh, you mean not while you 4 Q. Can you explain --4 were working at Ferro Corporation? 5 5 A. Of course pigments, solvents. A. Right. 6 Q. Can you explain what an alkyd is to me? 6 Q. Okay. Later on you became involved in other 7 7 A. An alkyd is a cooked material which is a trade organizations; is that correct? 8 8 product of glycerin, oil, phthalic anhydride, solvent. A. I -- I was involved in the Los Angeles society, 9 Q. When you say "oil," do you know what kind of 9 which is also part of the same national paint 10 10 oil was used in the development of the alkyds? association. 11 11 Q. Okay. And we'll get there. We'll get there. A. They were vegetable oils, in general. 12 Q. When you say "solvents," can you tell me what 12 This Cleveland society was part of a national 13 solvents were used? 13 organization, though? 14 A. It depended upon the type, the length of oil 14 A. Yes. 15 content. It could be aliphatic or aromatic solvents. 15 Q. Did you ever participate in national meetings? 16 Q. Do you know what --16 A. I was a member of the -- the national labeling 17 A. Or, in addition, some alcohols. 17 committee of the paint and varnish group in Washington, 18 Q. And did Ferro Corporation publicly market these 18 19 19 paints that it was developing or were they strictly Q. And you were a member of that committee during 20 being developed under contract with the military, if you 20 this time period? 21 know? 21 A. Yes. 22 22 Q. What was that committee? A. They were -- they were marketed to man- --23 man- -- manufacturers who were manufacturing articles 23 A. They worked on proper warning labels and so 24 for the government. 24 forth for paint products on a national basis. 25 Q. Okay. Was it sold under a trade name? 25 Q. What was your role in that committee?

	Page 18		Page 20
1	A. Just a member.	1	Q. Was it also then applying the enamel to the
2	Q. Okay. Were you an active member?	2	fenceposts?
3	A. Pardon?	3	A. No.
4	Q. Were you an active member?	4	Q. Okay. So that process you just described of
5	A. Yes.	5	dipping the fencepost, that occurred at a different
6	Q. While you were at Ferro Corporation, did you	6	facility?
7	have any experience with varnish production?	7	A. That that occurred at the at the client's
8	A. No.	8	plant.
9	Q. How long were you at Ferro Corporation?	9	Q. Okay. As far as the production of the enamels,
10	A. I worked totally at Ferro for just over ten	10	was production of a baking enamel different than
11	years.	11	production of a fencepost enamel?
12	Q. Can you help put me back into the chronology	12	A. Well, the fencepost enamel had to be faster
13	where timewise this is?	13	drying because it wasn't going through the normal baking
14	A. 1940 to 1950 through '50.	14	process.
15	Q. Were you in Cleveland for Ferro Corporation	15	Q. Okay. Were the raw materials used in the
16	throughout that time period?	16	enamels different?
17	A. No. I spent two years. I got transferred to	17	A. To some extent, yes.
18	Los Angeles, where they opened a plant in Los Angeles,	18	Q. How so?
19	and they had me come out to be the chemist.	19	A. They had to be different alkyd resins and hard
20	Q. When were you transferred? Was that 1948?	20	resins so that there was a fast evaporation and and
21	A. About '48, yes.	21	further drying with the after the quick warmup
22	Q. Were operations in the LA plant at Ferro	22	process that they used to they call it baking.
23	Corporation different than operations in Cleveland?	23	Q. Were PCBs used in any of those processes?
24	A. It was a lot smaller plant. We didn't have the	24	A. Yes. There was some PCB used in the fencepost
25	same baking enamel customers that they would have in the	25	enamel.
	Page 19		Page 21
1	Cleveland or the Midwest. So it was hunt and serve	1	Q. Okay. And that was used at Ferro Corporation?
2	for what you could get as far as customers were	2	A. I'm sorry. No. No.
3	concerned.	3	Q. There were not
4	Q. Okay. That was a poorly worded question.	4	A. I answered some of these questions incorrect.
5	Were the products that were developed the same	5	It wasn't at Ferro. This was later on.
6	at the two plants?	6	Q. Okay. And we'll get there. Okay?
7	A. The products developed were developed for each	7	A. Okay.
8	individual customer.	8	Q. If I understand correctly, then, at and
9	Q. Okay. I assume by 1948 you were no longer	9	let's backtrack a little bit, at the LA plant, was it
10	making the paints for wartime production; is that	10	primarily baking enamels that were being manufactured?
11	correct?	11	A. Yes. Yes.
12	A. Oh, that's correct.	12	Q. Okay. Were fencepost enamels manufactured
13	Q. So was the focus at the LA plant, then, on the	13	there at all?
14	baking enamels?	14	A. No.
15	A. Baking enamels and also fencepost enamel.	15	Q. Okay. Perfect.
16	Q. How was fencepost enamel different than baking	16	And you were at Ferro in LA from 1948 to 1950?
17	enamel?	17	Is that what you testified to?
18	A. Well, a fencepost manufacturer was a very crude	18	A. Yes.
19	manufacturer who had a big dip tank and you dipped these	19	Q. What was your job title during that time?
20	fenceposts into the dip tank. They would come out and	20	A. Chemist.
21	drain slightly, go through a line, slightly force dried	21	Q. Chemist?
22	and then packaged.	22	A. Yes.
23	Q. Was Ferro actually manufacturing the enamel	23	Q. Were you overseeing did you have somebody
24	that went on the fenceposts?	24	that you reported to?
25	A. Yes.	25	A. The manager.

	Page 22		Page 24
	Page 22		Page 24
1	Q. Okay. Within the lab, did you have anybody		A. No.
2	that you reported to?  A. No.	2	Q. Okay. And the LA Society for Coating
3		3	Technology, that was part of a larger national society?  A. Yes.
4 5	<ul><li>Q. You were in charge of the lab?</li><li>A. Yes.</li></ul>	4 5	Q. And it did the same things you talked about
6	Q. Where did you work after Ferro Corporation?	6	earlier?
7	A. National Lab company in Los Angeles,	7	A. Yes.
8	California.	8	Q. Okay. What was the nature of the operations at
9	Q. So from Ferro you started working at NL?	9	the LA facility?
10	A. Yes.	10	A. We made industrial paints, and we also made
11	Q. And you were working at their Los Angeles	11	paints for the homeowner.
12	facility?	12	Q. It was a manufacturing facility?
13	A. Yes.	13	A. Yes.
14	Q. Do you know where that facility was located?	14	Q. Okay. Was anything, other than industrial
15	A. I'm sorry?	15	paints and homeowner paints, manufactured at the
16	Q. Do you know where that facility was located	16	facility?
17	within LA?	17	A. No.
18	A. 2240 East	18	Q. Varnishes were not
19	Q. What was manu	19	A. Not not pardon?
20	A. No, wait a minute. I'm sorry. 3113 East 26th	20	Q. Varnishes were not manufactured there?
21	Street in Vernon.	21	A. No varnishes was manufactured there.
22	Q. Okay. What were your what was your job	22	Q. Alkyds weren't manufactured there?
23	title at NL?	23	A. Well, we did make some traffic paints.
24	A. I originally started as an industrial chemist.	24	Q. Did you say traffic paints?
25	Later on I became chief chemist of Los Angeles.	25	A. Yes.
	Page 23		Page 25
1	Q. Was there a difference in job responsibilities	1	Q. Is that like paints used on roads?
2	going from industrial chemist to chief chemist?	2	A. Yes.
3	A. Well, I was in charge of controls as well, as	3	Q. Okay. But that would still fall within paint
4	the chief chemist, that I wasn't in charge of it as	4	manufacture?
5	industrial chemist.	5	A. Yes.
6	Q. When you say "in charge of controls," what do	6	Q. Were alkyds manufactured there?
7	you mean?	7	A. No.
8	A. The controls of the paints before they went to	8	Q. Were lacquers manufactured there?
9	the customer; in other words, to see whether they met	9	A. Vinyls.
10	specifications.	10	Q. Vinyls did you say?
11	Q. While you were working in LA, did you continue	11	A. Vinyls, yes.
12	to be involved in any trade associations?	12	Q. Okay.
13	A. Yes. The same organization, Los Angeles	13	A. V-y-n-a-l (sic).
14	Society for Paints Los Angeles Society for Coatings	14	Q. Okay. Were any of the raw materials used in
15	Technology. I was	15	the paint production process manufactured in LA?
16	Q. Were you a member of any I'm sorry. I	16	A. No.
17	interrupted you.	17	Q. Okay. When you say industrial paints were
18	A. At which, just before leaving for	18	manufactured in LA, can you give me a better
19 20	San Francisco, I was president of it.	19 20	understanding of what constituted an industrial paint?
21	Q. We'll get to San Francisco. But before while you were in LA, you were the president of the LA	21	A. It would be a baking enamel or an air-dry
22	Society for Coating Technology?	22	enamel for anything including bedsprings, furnace jackets.
23	A. Yes.	23	Q. And was the manufacturing process for the
24	Q. Okay. Were you a member of any other trade	24	industrial paints at the LA facility similar to the
25	associations?	25	manufacturing process for the baking enamels you
			manufacturing process for the bunning charles you

Page 26 Page 28 described that occurred at the Ferro Corporation? the transition. When I left LA, they were still making 1 1 2 A. Some of the -- some of the equipment was 2 white-lead house paints, so that transition happened 3 3 different. later when we got to San Francisco. 4 Q. Okay. So that during the time that you were in 4 Q. Okay. 5 5 A. We had ball mills and roller mills. Where in LA was the majority of the paint white-lead-based oil 6 Cleveland, they had Baker Perkins dough mixers and so 6 7 7 forth to make the mostly white paints for the A. I wouldn't say the majority, but a good 8 8 refrigerators and so forth. proportion. 9 Q. Okay. Were the materials used similar? 9 Q. Okay. Were PCBs used in the manufacture of 10 A. They were similar materials. 10 those paints? 11 Q. Okay. What about with respect to homeowner 11 A. Not in homeowners paints, no. 12 Q. Okay. Were PCBs used in the manufacture of any 12 paints? When you indicate that homeowner paints were 13 manufactured, what is a homeowner paint? 13 paints that were manufactured at the NL LA facility? 14 14 A. Oil paints for homes, solid paints for A. I used some PCBs in the -- in the fencepost 15 siding -- for trim, interior enamels. Interior and 15 enamel 16 16 Q. Okay. How was the fencepost enamel different exterior enamels, generally. 17 Q. Would this category have included the fencepost 17 than the other paints that were being manufactured in 18 enamels that you were talking about earlier? 18 19 19 A. I didn't understand it exactly. A. It had to be very fast drying. It had to have 20 Q. Sure. Earlier we had been talking a little bit 20 stability in the dip tanks because you're continuously 21 about fencepost enamels --21 putting oxygen into the dip tanks with all these 22 A. Yes. 22 fenceposts dropping into a 500-gallon dip tank being 23 Q. -- that you had described were manufactured. 23 pulled out. 2.4 Were those fencepost enamels manufactured at NL's LA 2.4 I would say it had to be fast drying because it 25 facility? 25 just got a little bit of heat and it was bundled up Page 27 Page 29 1 1 and -- and shipped. 2 2 Q. What ingredients were used in the oil paints Q. Okay. How were PCBs used in the manufacture of 3 that were manufactured at NL's LA facility? 3 the fencepost enamels in LA? 4 4 A. It was an ongoing process depending upon what A. It was used as a hard resin to -- to help the 5 5 the industry was doing. When I first got there, the oil solvent release. 6 paints were white lead and oil, zinc oxide, talc. Later 6 O. It was added to the resin? 7 7 on it became more alkyd-type paints. A. It was added to the resin in the paint 8 8 Gradually the solid-based paints were taken manufacture. 9 over by water-based paints, which would be for both the 9 Q. Do you know who supplied the PCBs? 10 10 A. Monsanto. stucco and siding paints as well as wall paints and 11 the -- and the enamels in the homes. 11 O. Do you know what PCB was used? 12 Q. How long were you in LA? 12 A. 5460. 13 13 Q. That's -- and RO45460 was the number? A. Ten years. 14 Q. So from 1950 until roughly 1960? 14 15 A. Well, until '61, actually. 15 Q. Are you aware of any other PCBs used at the LA 16 16 Q. Were different materials -facility? 17 17 A. Correction. I started in NL in '51. Q. Okay. Vou had described some changes in 18 18 Q. Do you know what the packaging looked like on 19 the types of paints that were developed over time. Did 19 the materials that you received from Monsanto? 20 that transition occur while you were in LA? 20 A. I don't recall. 21 21 A. Much of it, yes. Q. Do you have any idea about the quantities that 22 Q. Okay. And you had described a transition from 22 would have been used at the LA facility? 23 an oil-based paint to an alkyd-based paint; is that 23 A. No, I don't.

Q. Okay. Do you have an idea about how much of --

how much resin was used in the development of the

24

24

25

correct?

A. I -- I think that I made a mistake in saying

Page 30 Page 32 chemist in LA to the time you were technical supervisor 1 enamel? 1 2 A. At the present time, I don't. 2 in San Francisco was that in San Francisco you now had 3 responsibility for all of the West Coast facilities? 3 Q. Okay. Was it a small portion of the overall 4 A. Yes. 4 formulation? 5 A. I would say general, yes. 5 Q. Okay. Did you continue to be involved in any Q. And do you have an idea about what portion of 6 trade associations while you were working for NL in 6 7 the resin PCBs were? 7 San Francisco? 8 8 A. Yes. The San Francisco --A. I'm guessing less than 20 percent. 9 Q. Okay. So, if I understand correctly, PCBs made 9 Q. Society for Coating? 10 up less than 20 percent of the resin which made up a 10 A. -- Society -- right. small portion of the overall formulation of the enamel? 11 11 Q. Were you president of that? 12 A. Yes. 12 A. It was the Golden Gate. I'm sorry. Not 13 Q. Was that fencepost enamel manufactured 13 San Francisco. It was the Golden Gate Society. 14 throughout the time period you were at LA? 14 Q. Did you have a title within the Golden Gate 15 15 Society? 16 Q. Do you know what time period it was 16 A. No, I didn't. 17 manufactured? 17 Q. Were you involved in any other trade 18 18 associations? A. Early '50s. 19 A. No. 19 Q. Okay. Was that manufactured for a particular 20 customer? 20 Q. Did NL have any other facilities in 21 A. Yes. 21 San Francisco at that time? 22 22 A. They had a facility at Marin Street, which was Q. Do you know who that customer was? 23 2.3 A. I don't recall. 24 Q. But it's your understanding that that customer 24 Q. Okay. And I'll sort of ask generally about 25 was only a customer during the early '50s? 25 both of those facilities. At the 24th Street facility, Page 31 Page 33 A. I understand there's no more steel mills in LA. 1 was that a manufacturing plant? 1 2 Q. Okay. Were there any other customers that 2 A. Yes. 3 you're aware of for which PCBs were used --3 Q. What was manufactured at the 24th Street 4 4 facility? 5 5 A. Alkyds for use in the other two plants -- for Q. -- in their product formulations? 6 A. Pardon me. No. 6 use in both -- or all three plants. Varnishes for the 7 Q. Okay. If I understand you correctly, in about 7 use in all three plants. Varnishes for sale to 8 customers. Industrial paints. Label varnishes. Again, 8 1961 you moved from NL's LA facility to its 9 San Francisco facility? 9 the home products that were used by the -- the 10 10 homeowners. 11 Q. Okay. Do you know where that facility was 11 Q. Was that fencepost enamel --12 12 located? A. No. 13 A. 2240 24th Street. 13 Q. -- manufactured in --14 14 A. No. Q. Do you know why you were transferred? 15 A. I transferred to take over the West Coast 15 O. -- San Francisco? 16 laboratories for Dutch Boy paint. 16 A. No. 17 Q. There were labs in LA, correct? 17 Q. Were alkyds manufactured throughout -- well, 18 A. There was still a laboratory in LA, a 18 let me backtrack. 19 19 laboratory in Seattle. I was in charge for all of them How long were you in San Francisco? 20 plus controls. 20 A. '61 to '70. 21 Q. Okay. Was there a change in job title 21 Q. Is it your understanding that the facility then 22 associated with the move to San Francisco? 22 closed in 1970? 23 A. Technical supervisor. 23 A. They closed the facility in 1970, yes. 24 Q. And if I understand correctly, the difference 24 Q. Okay. So you were there from '61 until it 25 in your responsibilities from the time you were chief 25 closed?

Page 34 Page 36 1 1 A. Yes. Can you describe for me the process by which 2 Q. Okay. At the time you arrived at the 24th 2 alkyds were manufactured? 3 3 Street plant, was it your understanding -- well, let me A. Well, we had two kettles. One was a 4 3,000-gallon kettle, and the other kettle was a 4 5 Were alkyds manufactured at the facility 5 thousand-gallon kettle. The processes --6 throughout the time that you worked there? 6 Q. Okay. You were working in the lab, correct? 7 A. Yes. 7 A. I was working in the lab. 8 8 Q. Were varnishes manufactured at the Q. Did you have any responsibility for production? 9 San Francisco plant throughout the time you worked 9 A. No. 10 there? 10 Q. Okay. You were responsible for developing the 11 A. Yes. But in smaller quantities. As -- as 11 formulations that were used in production --12 alkyds increased in volume and in use, varnishes became 12 A. Right. Q. -- is that correct? 13 less and less necess- -- of a necessity. 13 14 14 Q. Were paints manufactured at the 24th Street A. Right. 15 15 Q. Okay. Can you describe for me the formulation plant --16 A. Yes. 16 that was used in the -- for the alkyds? 17 Q. -- at the time you were there? 17 A. Again, it would be glycerin, oil, phthalic 18 Are you aware of -- was the manufacturing plant 18 anhydride, maleic anhy- -- or maleic anhydride. Q. When you say "oil," would that have been 19 open seven days a week? 19 20 A. I don't believe so. 20 vegetable oil? 21 Q. Was it open on weekends? 21 A. That would be vegetable oil, yes. 22 A. I don't think so. 22 Q. Okay. Were PCBs used in the manufacture of the 23 23 Q. Was it open 24 hours a day? alkyds? 2.4 A. Yes. I believe so. 24 A. No. 25 Q. Okay. Was it open on holidays? 25 Q. Okay. Did the formulation change over the time Page 35 Page 37 1 A. I don't recall. 1 that you were overseeing the lab? 2 Q. Okay. Was production consistent throughout the 2 A. Are we talking about alkyds? 3 time you were there? Were there periods of low 3 Q. Yes. Yes. 4 production or particularly high production? 4 A. Not tremendously, no. 5 A. Basically I think it was fairly even, on an 5 Q. Okay. Essentially the same raw materials 6 even keel. 6 throughout the time period? 7 7 Q. Do you know why the facility was shut down in A. Yes. 8 1970? 8 Q. Were PCBs ever used in the production of the 9 9 alkyds? A. Tax purposes. 10 10 Q. Okay. Do you know whether or not NL was able 11 to fill production through its other facilities on the 11 Q. And if I understand what you had previously 12 West Coast? 12 testified to, the alkyds were used in the paint 13 A. Yes. NL used the facilities at Los Angeles and 13 production both in San Francisco and in the other West 14 Seattle to make up for the loss of facilities in 14 Coast facilities? 15 Seattle -- or in San Francisco. 15 A. Yes. 16 Q. Do you have an idea about the volume of 16 Q. Were alkyds also sold? 17 production at the San Francisco facility during the time 17 A. No. 18 it was open? 18 There was no packaging of finished product for Q. 19 A. I wouldn't have any idea at the moment. 19 sale? 20 20 Q. Okay. And I apologize. That was another A. Not as alkyds, no. 21 instruction I should have given you in the very 21 Q. Okay. With respect to the varnishes that were 22 22 beginning. If there's a point you just don't know an manufactured at the facility, again, you weren't answer, or, you know, that's perfectly fine to tell me. 23 23 involved in overseeing production, correct? 24 You know, we don't want you to speculate or to guess. 24 A. I -- I wasn't overseeing production, no. 25 Okay? 25 Q. But you were overseeing the formulations of the

Page 38 Page 40 1 varnishes in the lab? 1 San Francisco facility? 2 A. By the time I got there, most of the 2 A. No. 3 3 formulations were already in use. Q. And then, I'm sorry. One more time. Can you 4 Q. Okay. Do you know who had been in charge of 4 please describe what else was used in the varnishes? 5 5 the lab before you got there? You have the oil and you've added the driers. Anything 6 A. Who you say? 6 else used in the varnish? 7 7 Q. Correct. A. Solvent. 8 8 A. Richard Savage. Q. Okay. Do you know what solvents were used? 9 9 Q. Okay. Can you describe the varnish formulation A. In varnish, it would probably be mineral 10 10 that was being used when you got there? spirits. 11 11 A. Well, the varnish department would make body Q. Okay. And then you indicated that the finished 12 12 oils and so forth to be used in house paints. We would varnish product was either packaged for sale or used 13 add driers to oils to make boiled oil so it would dry. 13 within the paint production; is that correct? 14 14 They would also combine oil, hard resins and solvents to A. That's correct. 15 make a varnish, cook a varnish. 15 Q. How was it stored at the facility? 16 Q. Okay. If I understand correctly, the varnish 16 A. That used in the paint production would be 17 was then used in the paint production process? 17 stored in 55-gallon drums. 18 A. It could be used in the paint process or some 18 Q. Okay. And then those -- the varnish in those 19 drums would have been poured into the paint? 19 of it could be sold as finished product. 20 Q. Okay. You had indicated -- were there are any 20 A. Into the batches of paint. 21 changes to the varnish formulation while you were there? 21 Q. Okay. Do you know what happens to the empty 22 22 A. I don't recall. varnish drums after it was poured into the paint batch? 23 Q. Okay. And I believe you had indicated that 23 A. I presume that it was sent out to be cleaned. 2.4 varnish is slowly phased out as alkyds became --24 Q. Okay. Did you see empty varnish drums at the 25 A. Well, yes, the volume of varnishes dropped 25 facility while you were there? Page 39 Page 41 tremendously as alkyds took over. 1 A. On occasion. 1 2 2 Q. Do you know what time period that transition Q. Okay. Do you have an idea about the quantity 3 3 of empty varnish drums there would be on any given day? occurred? 4 4 A. That would be later in the -- later in the A. No, I wouldn't. 5 5 Q. Do you have an idea about the quantity of '60s. 6 Q. Okay. But, again, it was vegetable oils that 6 varnish that would be used in a batch of paint? 7 7 were used in the varnish; is that correct? I believe A. We're talking about too many different kinds of 8 8 you had indicated they were oils and then driers were -paint. 9 9 Q. Okay. Okay. To the extent that there were --A. They were vegetable oils, yes. 10 O. Okay. And then driers were added? 10 well, how do you mean? A. Yes. 11 11 A. Pardon? 12 Q. What were those driers? 12 Q. How do you mean we're talking about -- you mean 13 13 A. For a finished product, they would probably be because certain paints weren't used with varnish at all? 14 cobalt, naphthenate. Possibly some manganese 14 A. There wouldn't be no varnish in it at all. 15 15 naphthenate and lead naphthenate. Q. Okay. For those paints that were varnish 16 Q. Do you have an idea about what portion of the 16 based, what percentage of the paint would be varnish, if 17 driers would have been lead driers versus cobalt driers 17 you know? 18 versus any of the other driers you described? 18 A. I'm guessing. It'd probably, 50 to 60 percent. 19 19 A. Actually the greatest quantity of the drier Q. Okay. 20 MS. O'BRIEN: Guessing or estimating? would be lead. 2.0 21 Q. Okay. And how much drier was used within a 21 THE WITNESS: Estimating. 22 22 MS. O'BRIEN: Thank you. batch of varnish? 23 A. Lead drier, they wrote 5 pounds per a hundred 23 BY MR. EDELSTEIN: 24 Q. Do you know how much varnish-based paint would gallons of a 24 percent solution. 24 25 Q. Were the lead driers manufactured at the be manufactured at one time?

	Page 42		Page 44
1	A. It would probably be in small quantities like	1	Q. Okay. What about a half a truck per day?
2	100 to 200 gallons.	2	A. That's still high.
3	Q. Okay. In the course of a day, do you know how	3	Q. Okay. Were PCBs ever used in the varnish
4	much at highest production, how much varnish-based	4	formulations?
5	paint would be manufactured in a day? And if you don't	5	A. No.
6	know, that's perfectly fine.	6	Q. Were resins used in the manufacture of the
7	A. I don't know.	7	alkyds or the varnishes?
8	MS. O'BRIEN: That one might be a guess.	8	A. Yes. As modifiers, some of the alkyds.
9	BY MR. EDELSTEIN:	9	Q. Okay. And you had talked about in LA that PCBs
10	Q. I was just trying to get a sense of the number	10	were added to those resins in the manufacture of the
11	of the varnish drums that may be present at the facility	11	fencepost enamel?
12	at a given time.	12	A. In the manufacture of the paint itself, not in
13	A. Well, are we differentiating between varnish	13	any in the paint manufacture.
14	and alkyd?	14	Q. Okay. But those PCBs weren't added to the
15	Q. It's a good question. I'm asking now	15	resins that were used in the
16	specifically about the varnish, yeah, the number of	16	A. No.
17	varnish drums.	17	Q varnish manufacture in San Francisco,
18	A. It would be small quantities.	18	correct?
19	Q. Okay. Alkyds, am I correct that alkyds were	19	A. It was a separate entity.
20	used in the same way at the facility as varnish? It was	20	Q. Okay. And those PCBs weren't added to the
21	added to	21	resins used in the alkyds manufactured in San Francisco,
22	A. Added to paint, yes.	22	correct?
23	Q paint to form the base for the paint?	23	A. No.
24	A. Yes.	24	Q. Okay. All right. I'm going to, then, shift to
25	Q. And that made up the larger percentage of the	25	paint manufacture at the 24th Street facility. Did you
	Daga 12		D 45
	Page 43		Page 45
1	paint than the varnish-based paint?	1	have any involvement in overseeing production of the
1 2		1 2	
	paint than the varnish-based paint?  A. Yes.  Q. After a batch of alkyds were manufactured, were	1	have any involvement in overseeing production of the paint?  A. Not production.
2	paint than the varnish-based paint?  A. Yes.  Q. After a batch of alkyds were manufactured, were they stored in drums as well?	2	have any involvement in overseeing production of the paint?  A. Not production.  Q. You were in the lab?
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2 3 4	paint than the varnish-based paint?  A. Yes.  Q. After a batch of alkyds were manufactured, were they stored in drums as well?  A. Yes.  Q. Okay. And they were treated, handled the same	2 3 4 5 6	have any involvement in overseeing production of the paint?  A. Not production. Q. You were in the lab? A. I was in the lab. Q. And in the lab, did you oversee the formulation
2 3 4 5 6 7	paint than the varnish-based paint?  A. Yes.  Q. After a batch of alkyds were manufactured, were they stored in drums as well?  A. Yes.  Q. Okay. And they were treated, handled the same way, that the drum was then dumped into the batch of	2 3 4 5 6 7	have any involvement in overseeing production of the paint?  A. Not production. Q. You were in the lab? A. I was in the lab. Q. And in the lab, did you oversee the formulation of the paints that were being manufactured?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	paint than the varnish-based paint?  A. Yes.  Q. After a batch of alkyds were manufactured, were they stored in drums as well?  A. Yes.  Q. Okay. And they were treated, handled the same way, that the drum was then dumped into the batch of paint?  A. Yes.  Q. And then the empty alkyd drums were also put aside for pickup for reconditioning. Is that your understanding?  A. I think so.  Q. Okay. Do you have an idea about the number of empty alkyd drums that would be present at the facility?  A. I don't know.  Q. Okay. Do you know whether or not there would be a truckload a day of empty drums? Does that seem high? reasonable? low?  A. It doesn't sound reasonable to me.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	have any involvement in overseeing production of the paint?  A. Not production. Q. You were in the lab? A. I was in the lab. Q. And in the lab, did you oversee the formulation of the paints that were being manufactured? A. Yes. Q. Okay. And you described a number of different paints that were manufactured at 24th Street plant. Starting with the industrial paints, was that the same bake enamels that you had described earlier that were manufactured by Ferro Corporation in LA? A. No. You said "in LA." I'm sorry. I'm justQ. Correct. AI jumped to conclusion. Q. Okay. Fair enough. The industrial paints that were being manufactured at the 24th Street plant in San Francisco, were those the same types of industrial paints that were being manufactured in the LA facility
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	paint than the varnish-based paint?  A. Yes.  Q. After a batch of alkyds were manufactured, were they stored in drums as well?  A. Yes.  Q. Okay. And they were treated, handled the same way, that the drum was then dumped into the batch of paint?  A. Yes.  Q. And then the empty alkyd drums were also put aside for pickup for reconditioning. Is that your understanding?  A. I think so.  Q. Okay. Do you have an idea about the number of empty alkyd drums that would be present at the facility?  A. I don't know.  Q. Okay. Do you know whether or not there would be a truckload a day of empty drums? Does that seem high? reasonable? low?  A. It doesn't sound reasonable to me.  Q. Because it seems high or low?  A. I think it's high.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	have any involvement in overseeing production of the paint?  A. Not production. Q. You were in the lab? A. I was in the lab. Q. And in the lab, did you oversee the formulation of the paints that were being manufactured? A. Yes. Q. Okay. And you described a number of different paints that were manufactured at 24th Street plant. Starting with the industrial paints, was that the same bake enamels that you had described earlier that were manufactured by Ferro Corporation in LA? A. No. You said "in LA." I'm sorry. I'm just Q. Correct. A I jumped to conclusion. Q. Okay. Fair enough. The industrial paints that were being manufactured at the 24th Street plant in San Francisco, were those the same types of industrial paints that were being manufactured in the LA facility for NL? A. At the at the time I got there, it was

Page 46 Page 48 1 Q. Okay. What raw materials were used in the 1 start with a white base, extenders to control the gloss. 2 manufacture of the industrial paints? 2 That would be silica or calcium carbonate or asbestine. 3 3 THE COURT REPORTER: What was the last one? A. Mostly alkyds. And if it was a baking enamel, 4 4 of course, melamine or urea would be in there. I'm sorry. 5 5 Q. Were pigments added to any of those industrial THE WITNESS: Asbestine. 6 BY MR. EDELSTEIN: 6 paints? 7 7 A. Oh, yes. Q. Were PCBs --8 8 Q. Okay. What types of pigments? A. I should say talc. 9 A. Generally the main pigment would be either --9 Q. Okay. Talc. 10 10 either titanium plus colored pigments or aluminum. Were PCBs ever used in the home-paint products 11 11 Q. Okay. You had also mentioned that label that were manufactured --12 varnishes were manufactured at the 24th Street plant. 12 A. No. 13 What's a label varnish? 13 Q. -- at the San Francisco plant? 14 14 A. Label varnishes were the varnish that went on Were any of the pigments lead pigments? 15 15 tin cans. A. In the oil-based house paint, yes, which, of 16 16 Q. Were the materials used in the development of course, were being used less and less as time went by 17 label varnishes different than the varnishes that were 17 because other solvent-based paints were taking over for 18 used as the base of the paints? 18 19 19 A. Generally they were styrenated alkyds or Q. Okay. You anticipated my next question, which 20 styrenated oil. 20 was going to be: Were lead pigments used throughout the 21 Q. Any other materials used in those? 21 period of time that you were in San Francisco? 22 22 A. I believe that they were manufactured -- some A. Solvent, waxes, driers. 23 2.3 Q. Okay. What types of driers? was manufactured up to the end. 24 A. Cobalt manganese. 24 Q. Okay. 25 25 A. But it was just about that time where the Q. I forgot to ask the question. So I'm going to Page 47 Page 49 backtrack for a minute. On the industrial paints, were 1 transition came where lead paints were knocked out 2 PCBs ever used in the manufacture of the industrial 2 altogether. 3 paints --3 Q. And do you have an idea what portion of the 4 4 overall production was home-based paints versus the A. No. 5 5 Q. -- in San Francisco? industrial paints or the other types of paints you've 6 A. Not to my knowledge. 6 described? 7 7 Q. Were PCBs ever used in the manufacture of the A. A quick guess would be 75 percent home. 8 8 label varnishes? Q. Okay. And of that -- the percentage of home 9 9 ba- -- home paints, do you have an idea about, over the A. No. 10 Q. And you had also described some home-paint 10 course of time, what percentage of those would have 11 products that were manufactured at that 24th Street 11 included the lead pigments? 12 facility. What raw materials were used in the 12 A. Depending upon the year, when I first got 13 manufacture of the home-paint products? 13 there, it would be more than what it was when I left. 14 A. They were probably -- they would be either 14 Q. Okay. 15 alkyds -- oils and alkyds or water-based products. 15 A. But I'm guessing maybe 50 to 25 percent. 16 Q. Were varnishes used in those home paints? 16 Q. At the time you got there or at the time you 17 17 A. Early on as part of the oil paint situation. left? 18 Q. Okay. But then it switched to alkyds? 18 A. Sort of an average. 19 A. Yes. 19 Q. Okay. Okay. Did NL manufacture the pigments 20 Q. Okay. Were pigments added to any of the 20 at the 24th Street plant? 21 home-paint products? 21 A. No. 22 22 A. Practically all of them. Q. At the end of a -- the paint production 23 Q. Okay. And what types of pigments were added? 23 process, was the paint packaged for sale at the 24th 24

24

Street plant?

A. Yes.

A. Depending upon the paint, in general, the

25

majority of the paint would be used titanium dioxide to

Page 50 Page 52 1 Q. How was it packaged? 1 24th Street plant while you worked there? 2 A. Mostly in the pints, quarts, ones and fives, 2 A. Finished product? 3 3 occasionally a drum. Q. Any other products that were manufactured 4 Q. When you say "a drum," are you talking about a 4 there. 5 5 55-gallon drum? A. Oh, many, many water-based paint products. 6 6 Q. Okay. But that would that fall within the A. Yeah. 7 7 Q. And then that was packaged for sale? home-paint product category, though? 8 8 A. Or packaged for sale, and this would be A. Yes. Yes. 9 9 industrial paints. Q. Okay. Maybe we haven't talked about it. What 10 Q. Okay. Were the paints that were produced at 10 materials were used in the water-based paints? 11 the 24th Street plant ever be used on site or at any 11 A. Polyvinyl acetate, acrylic, styrene butadiene, 12 12 other NL facilities? depending upon the formulation and the time. 13 A. Some of the paints made in San Francisco were 13 Q. Okay. 14 14 shipped to Seattle and Los Angeles because the volume A. That's the -- the vehicles. 15 15 was low, so it wouldn't be producing in both places or Q. Okay. 16 16 A. Pigmentation is mostly titanium dioxide. all places. 17 Q. Okay. Were the paints manufactured in the 24th 17 Again, the extended pigments: Talc, silica, calcium 18 Street plant ever used on site? 18 carbonate. The -- there were also many additives like 19 19 A. On site you say? thickenings -- thickeners for the water-based paints and 20 Q. Yeah. And let me clarify. You had talked 20 so forth. Wetting agents too. 21 earlier about after varnishes and alkyds were produced, 21 Q. And are those materials that were used in the 22 they were stored in drums to be used in the paint 22 paint production process? 23 23 production process. A. Yes. 24 A. Yes. 2.4 Q. Okay. At any point were PCBs used in the 25 25 production of any materials at the 24th Street plant? Q. Was finished paint product ever stored on site Page 51 Page 53 1 for use in any way at the facility similarly? 1 2 A. Not -- not for use at the facility, no. 2 Q. Were pesticides ever used at the 24th Street 3 Q. Okay. So it was packaged? 3 plant? 4 4 A. Right. A. Yes. 5 5 Q. The finished product was packaged? Q. In what capacity? 6 A. Right. 6 A. We made a wood preservative. It was also 7 MR. EDELSTEIN: I'm about to shift into a 7 used -- I don't know how to answer that question quite. 8 8 different topic. So maybe we can take a little bit of a When you say "pesticides," do you also mean 9 break. We've been going about an hour and 15 minutes or 9 preservatives? 10 so. Sound good? Okay. 10 Q. What do you mean by preservatives? 11 THE VIDEOGRAPHER: With the approval of 11 A. Well, pesticides I take as something to kill 12 counsel, we are going off the record. The time is 12 bugs. 13 approximately 11:14 a.m. 13 Q. Okay. 14 (Recess.) 14 A. Preservatives would be some -- in-can 15 THE VIDEOGRAPHER: With the approval of 15 preservatives and so forth so that the paint wouldn't 16 counsel, we are back on the record. The time is 16 spoil. 17 approximately 11:25 a.m. 17 Q. Okay. 18 BY MR. EDELSTEIN: 18 A. Or would -- wouldn't mildew on the buildings. 19 O. Mr. Oberlin, we have talked about the materials 19 Q. Okay. Do you know how they arrived at the 20 that were used in a number of products that were 20 facility? 21 manufactured at the 24th Street plant. And I just want 21 A. I'm sorry? 22 to make sure I haven't missed anything. We've talked 22 Q. Do you know how those materials -- were those 23 about alkyds, varnishes, industrial paints, label 23 materials that were manufactured at the plant or that 24 varnishes and home-paint products. 24 were used as materials? 25 Were any other products manufactured at the 25 A. They would come in probably in drums.

Page 54 Page 56 Q. Okay. Okay. We have talked about there being 1 1 facility. 2 empty alkyd drums and empty varnish drums that were set 2 Q. Okay. Do you know what portion of the Marin 3 3 aside for pickup? Street facility was dedicated to storage of finished A. Uh-huh. 4 product versus production? 4 5 5 Q. And you may not know the answers to these A. Oh, 80 percent. 6 questions, so if you don't, just let me know. Do you 6 Q. Was anything other than lacquer manufactured at 7 know who picked up those drums? 7 the Marin Street facility? 8 A. No, I don't. 8 A. Some cold cuts that go into varnish. 9 9 Q. Okay. Do you where they went? Q. Anything else? 10 10 A. I can't think of anything. 11 Q. Do you know what the trucks that picked them up 11 Q. Was lacquer manufactured at the Marin Street 12 looked like? 12 facility throughout the time you worked in 13 A. Seemed to be a high-sided truck. 13 San Francisco? 14 Q. Okay. Do you know, did it have a color? 14 A. Yes. 15 A. No, I don't remember the color. 15 Q. Was that plant closed at the same time the 24th 16 Q. Okay. Do you know whether or not those -- that 16 Street plant was closed? 17 truck also picked up waste that was generated at the 17 A. Yes. 18 facility? 18 Q. Was anything, to the best of your knowledge, 19 A. I wouldn't know. 19 other than lacquer manufactured at the Marin Street Q. Okay. Were wastes generated in the lab? 20 20 facility before you got to San Francisco? 21 A. There was some waste generated in the lab. 21 A. Not that I know of. 22 Q. And how was that handled? 22 Q. While you were overseeing the lab at the 24th 23 23 I don't recall. Street plant, were you also overseeing the formulations 24 Q. Okay. Do you know whether or not it was put 2.4 for the lacquer that was being manufactured at Marin 25 out with the empty drums that were being picked up? 25 Street? Page 55 Page 57 1 A. I couldn't tell you. 1 2 Q. Okay. We had talked a little bit and you had 2 Q. Okay. Did Marin Street operate 24 hours a day? 3 mentioned that there was a second NL facility on Marin 3 A. I don't think so. 4 Street in San Francisco? 4 Q. Okay. Was it open seven days a week or the A. Marin Street. 5 5 five days that the 24th Street plant was open? 6 Q. Marin Street. What was that facility? What 6 A. I think it was five days. 7 7 were the operations at that facility? Q. Okay. What raw materials were used in the 8 8 A. That was our railroad siding to bring tank cars manufacture of the lacquer? 9 in, also our warehouse for finished product, and a plant 9 A. Alkyds, nitrocellulose, caster oil, dibutyl 10 10 for lacquer cutting. thalloid, solvents. 11 Q. The Marin Street facility was serviced by a 11 Q. When you say solids, what do you mean? 12 railroad? 12 A. Solvents. 13 A. I'm sorry? 13 Q. Oh, solvents. What solvents? 14 Q. The Marin Street facility was serviced by a 14 A. Mostly ethyl acetate and butyl acetate. Some 15 railroad? 15 16 A. Yes. 16 Q. Were any lead driers used in the production of 17 Q. Is that why it was served as the warehouse, 17 the lacquer? A. No drier in lacquer. 18 then, because you could store finished product there and 18 19 ship it by rail? 19 Q. I'm sorry? 20 A. They didn't have a large enough facility for a 20 A. No drier in lacquer. 21 warehouse at our plant. 21 Q. No lead added to it. Were PCBs used in the 22 Q. Okay. 22 production of the lacquer? 23 A. So finished pro- -- finished product -- most of 23 24 the finished product we stored to be -- for it to be 24 Q. Were any pigments added to the lacquer? 25 shipped to the various destinations from the Marin 25 A. Not that I know.

	Page 58		Page 60
1	Q. The lacquer that was produced at the Marin	1	Monsanto while you were working in San Francisco?
2	Street facility, was that then packaged for sale?	2	A. No.
3	A. Yes.	3	Q. Are you aware of any transformers present at
4	Q. Was any of that used on site or in the	4	the 24th Street plant or the Marin Street facility?
5	connection with the paint production process at 24th	5	A. There must have been transformers, but I can't
6	Street?	6	think of any at the moment.
7	A. I don't recall any.	7	Q. I take it, then, you don't recall there ever
8	Q. Okay. Do you know how the finished product was	8	being a leak from any of the transformers?
9	packaged?	9	A. Huh-uh.
10	A. Probably quarts and gallons.	10	Q. Are you aware of any underground storage tanks
11	Q. The alkyds that were used in the lacquer	11	that were present at the 24th Street plant or the Marin
12	production at the Marin Street facility, were they	12	Street facility?
13	manufactured at the 24th Street plant?	13	A. No. I I didn't get into the production end
14	A. Yes.	14	to that extent.
15	Q. Do you know how they got from the 24th Street	15	Q. Okay. I take it, then, you're not aware of any
16	plant to the Marin Street facility?	16	aboveground storage tanks that were present at either
17	A. The traffic back and forth was on more or less	17	facility?
18	flatbed trucks.	18	A. There must have been some, but I don't recall.
19	Q. Were the alkyds shipped in drums?	19	Q. Okay. We had talked a little bit about some
20	A. They would be, yes.	20	trade organizations that you had been a member of. Did
21	Q. Okay. And then the alkyds would be poured into	21	you ever receive any rewards or honors from any
22	the batch of	22	organizations you were involved with?
23	A. Yes.	23	A. Well, I was elected into the Hangmen Society,
24 25	Q lacquer? A. Yeah.	24 25	which is an honorary society connected with the paint society and or people worked on federal
	A. Tean.		society and or people worked on rederar
	Page 59		Page 61
1	Q. Do you know what happened to the empty lacquer	1	specifications, help write specifications.
2	drums?	2	Q. You helped write federal specifications for
3	A. I would presume that they were treated	3	certain products; is that correct?
4	similarly.	4	A. Yes.
5	Q. Okay. Do you have an idea about the amount of	5	Q. What products?
6 7	alkyd drums that would be shipped to the Marin Street facility in a day?	6 7	A. I don't recall any longer.
	A. From what I can ral recall of our lacquer		<ul><li>Q. Do you know when you did that?</li><li>A. It was during the war.</li></ul>
8 9	production, I would say it's very little.	8 9	-
10	Q. Were varnishes ever used in the lacquer	10	Q. Okay. Prior to your work at NL? A. Yes.
11	production process?	11	Q. Okay. After the San Francisco facilities
12	A. Not that I know of.	12	closed in 1970, did you continue to work for NL?
13	Q. Are you aware of PCBs ever being used at the	13	A. Yes. I designed and built the new West Coast
14	Marin Street facility?	14	laboratory in Los Angeles.
15	A. No.	15	Q. So you went back to Los Angeles?
16	Q. While you were working in San Francisco, are	16	A. Yes.
17	you aware of NL ever ordering anything from Monsanto for	17	Q. Okay. Did your job title change?
18	use at either the 24th Street plant or the Marin Street	18	A. No.
19	facility?	19	Q. Were you still responsible for Los Angeles and
20	A. We may have ordered some melamines. That's	20	Seattle?
21	melamine or urea from Monsanto. That's the only thing I	21	A. Yes.
22	can I can recall at this time.	22	Q. Okay. You mentioned that you built a new lab.
23	Q. Did those melamines or urea have a trade name?	23	What did that entail?
24	A. I don't recall.	24	A. I'm sorry.
25	Q. Did NL ever order any PCBs or Aroclors from	25	Q. You said that you built a new lab at the LA

	Page 62		Page 64
1	facility?	1	
1 2	A. Yes.	2	<ul><li>A. Until they sold out to Sherwin-Williams.</li><li>Q. Okay. So you were in LA from 1977 until when?</li></ul>
3	Q. Was that to address a new product?	3	A. Till Sherwin-Williams closed the LA plant.
3 4	A. That was that was because we were developing	4	Q. When was that?
		5	A. '83 or '84.
5 6	the products for the entire coast rather than for the	6	
7	just the LA area. We needed more room.	7	Q. Okay. So you were in New Jersey from 1974 to 1977, correct?
	Q. And what new products were you developing?	8	A. Yes.
8	A. We were working on the newer water-based paints	9	
9	in general, taking the lead out of paints, taking the		Q. And then back in LA from '77 to '84?
10	xylol out of some of the paints, taking making the	10	A. (Witness nods head.)
11	paints lead free rather than there was no longer a	11	Q. In 1984 did you go work somewhere else?
12	lead drier in them, working on alkyd-based house paints.	12	A. No, I didn't work for NL. I worked for Dutch
13	Offhand that's all I can think of.	13	Boy paints, which was the name of the holding company
14	Q. Were you ever based in the Seattle plant?	14	that bought our paint products, our paint division.
15	A. No.	15	Q. Okay. That happened in 1977, correct?
16	Q. Okay. How long did you work in LA after the	16	A. Right.
17	San Francisco plants closed in 1970?	17	Q. Okay. And then you moved back to LA. And so
18	A. I worked there until '74 when I was transferred	18	from 1977 you were working for Dutch Boy?
19	to the New Jersey plant I mean New Jersey	19	A. For them.
20	laboratory	20	Q. Right.
21	Q. Okay.	21	A. Until Sherwin-Williams bought them, and then I
22	A in West Caldwell.	22	worked for Sherwin-Williams until they closed the LA
23	Q. And did the nature of your responsibilities	23	plant. Then I worked for Sherwin-Williams commuting for
24	change at all when you were transferred to the West	24	six months to the Emeryville plant
25	Caldwell facil plant?	25	Q. Okay.
	Page 63		Page 65
1	A. Yes. I I was sent to West Caldwell along	1	A till I retired in '84.
2	with two other men because we were doing a better job	2	Q. Okay. And since 1984, have you been retired?
3	development-wise on the West Coast than they were doing	3	A. Yeah.
4	on the East Coast. Ah	4	Q. So after the San Francisco
5	Q. Okay. How long were you at West I'm sorry.	l _	Q. So after the San Francisco
_		5	~
6	I didn't mean to cut you off.	5 6	A. Oh, no, no, no, no. I I worked for
6 7	I didn't mean to cut you off.  A. They changed technical directors right after I	l .	A. Oh, no, no, no, no. I I worked for McCloskey varnish for a period of time. It was just a
7	A. They changed technical directors right after I	6 7	A. Oh, no, no, no, no. I I worked for McCloskey varnish for a period of time. It was just a part-time job.
7 8	A. They changed technical directors right after I got there, and so I got the job of overseeing the	6 7 8	A. Oh, no, no, no, no. I I worked for McCloskey varnish for a period of time. It was just a part-time job.  Q. Okay. And that was after 1984?
7 8 9	A. They changed technical directors right after I got there, and so I got the job of overseeing the production of the formulations that would go out to the	6 7 8 9	<ul> <li>A. Oh, no, no, no, no. I I worked for</li> <li>McCloskey varnish for a period of time. It was just a part-time job.</li> <li>Q. Okay. And that was after 1984?</li> <li>A. Yes.</li> </ul>
7 8 9 10	A. They changed technical directors right after I got there, and so I got the job of overseeing the production of the formulations that would go out to the various plants because I understood the facilities of	6 7 8 9	<ul> <li>A. Oh, no, no, no, no. I I worked for</li> <li>McCloskey varnish for a period of time. It was just a part-time job.</li> <li>Q. Okay. And that was after 1984?</li> <li>A. Yes.</li> <li>Q. Okay. After the San Francisco plants closed in</li> </ul>
7 8 9 10 11	A. They changed technical directors right after I got there, and so I got the job of overseeing the production of the formulations that would go out to the various plants because I understood the facilities of the the other plants, the West Coast plants that the	6 7 8 9 10 11	<ul> <li>A. Oh, no, no, no, no. I I worked for</li> <li>McCloskey varnish for a period of time. It was just a part-time job.</li> <li>Q. Okay. And that was after 1984?</li> <li>A. Yes.</li> <li>Q. Okay. After the San Francisco plants closed in 1970, were you ever back working in San Francisco for</li> </ul>
7 8 9 10 11 12	A. They changed technical directors right after I got there, and so I got the job of overseeing the production of the formulations that would go out to the various plants because I understood the facilities of the the other plants, the West Coast plants that the formulators in West Caldwell didn't understand.	6 7 8 9 10 11 12	<ul> <li>A. Oh, no, no, no, no. I I worked for</li> <li>McCloskey varnish for a period of time. It was just a part-time job.</li> <li>Q. Okay. And that was after 1984?</li> <li>A. Yes.</li> <li>Q. Okay. After the San Francisco plants closed in 1970, were you ever back working in San Francisco for any entities?</li> </ul>
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. They changed technical directors right after I got there, and so I got the job of overseeing the production of the formulations that would go out to the various plants because I understood the facilities of the the other plants, the West Coast plants that the formulators in West Caldwell didn't understand.  Q. How long were you in West Caldwell?  A. Close to four years.  Q. And that takes us up to about 1978?  A. '77.  Q. Okay. Did you go work somewhere else for NL at that point?  A. Not for NL.  Q. You left NL in 1977?  A. They closed the they sold it in '77. But I worked for the I got transferred back to LA and	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh, no, no, no, no. I I worked for McCloskey varnish for a period of time. It was just a part-time job.  Q. Okay. And that was after 1984?  A. Yes.  Q. Okay. After the San Francisco plants closed in 1970, were you ever back working in San Francisco for any entities?  A. No.  Q. Did you ever have any responsibility for overseeing operations at any facilities in San Francisco after 1970?  A. Not after San Francisco not in San Francisco, no.  Q. Okay. And throughout the period of time that you worked in LA after San Francisco and then in New Jersey, were you working as a chemist at that time throughout that time period?

Page 66 Page 68 1 1 products? Q. So in no particular order are these questions. 2 A. Yes. 2 All right. You testified as to your -- my 3 Q. Okay. Did you ever hear of an entity known as 3 questions first of all will relate primarily to the 24th Bedini Brothers Company? 4 Street facility in San Francisco, which I believe was 5 A. Pardon? 5 often referred to as the varnish plant. Is that fair? 6 Q. The Bedini Brothers, did you ever hear --6 As opposed to the lacquer plant at the Marin Street. 7 7 A. I've heard the name. A. That's -- that's correct. It would be paint 8 8 Q. Do you know in what capacity you've heard the plant. 9 9 name? Q. Paint plant. All right. 10 A. No. 10 In your -- and I'm sorry -- could you tell me 11 Q. Okay. Have you ever heard the name Myers Drum 11 again your position at -- for the western region when 12 you were at the paint plant in San Francisco? 13 A. It seems to me it was a drum company. 13 MR. EDELSTEIN: Object to form. 14 Q. You've heard that name? 14 THE WITNESS: I was in charge of development 15 15 and control of all three laboratories. When I say A. Yes. 16 16 "three laboratories," the three plant laboratories. Q. Do you know in what capacity? 17 A. We may have bought drums from them. I'm not 17 That's Seattle, Los Angeles and Cleveland -- not 18 18 Cleveland -- San Francisco. And also the varnish and 19 Q. Okay. Did you ever hear of a site known as the 19 vehicle group. We -- we had an alkyd laboratory. I was 20 Bay Area Drum site? 20 in charge of that too. 21 A. No. 21 BY MR. van AELSTYN: 22 Q. Okay. Other than in connection with this 22 Q. Where was it located? 23 deposition, have you ever heard -- did you hear that A. Seattle -- oh, Seattle. I'm getting confused. 23 24 name while you were working at NL? 2.4 San Francisco, 24th and Kansas. 25 A. I don't recall. 25 Q. So it was part of the same facility there? Page 67 Page 69 1 O. Okay. 1 A. Yes. Yes. 2 MR. EDELSTEIN: Can we go off the record for 2 Q. All right. What do you mean when you say you 3 3 were in charge of control for the three facilities? 4 4 THE VIDEOGRAPHER: With the approval of A. I was in charge of the control laboratories of 5 5 the -- of the -- all three facilities in that I saw that counsel, we are going off the record. The time is 6 approximately 11:49 a.m. 6 they were running the controls properly and so forth. 7 7 (Recess.) Q. How does a control laboratory differ from the 8 THE VIDEOGRAPHER: With the approval of 8 other laboratories or --9 counsel, we are back on the record. The time is 9 A. Control laboratories were set up to test the 10 10 approximately 11:52 a.m. spec- -- make sure all the finished product going to the 11 11 customer were within specifications. 12 **EXAMINATION** 12 Q. I see. I believe you testified that none of 13 BY MR. van AELSTYN: 13 the products manufactured at the paint facility and also 14 Q. Good morning, Mr. Oberlin. 14 the lacquer facility used PCBs; is that correct? 15 Good morning. 15 A. That's correct. 16 Q. My name is Nicholas van Aelstyn. I represent 16 Q. Would it have been possible for PCBs to have 17 the Yosemite Slough PRP Group. I have just a couple of 17 been used in a product manufactured there without your 18 follow-up questions to those of Mr. Edelstein. If we 18 knowledge? MR. EDELSTEIN: Object to form. Speculation. 19 could abide by the same rules, that would be great, not 19 20 20 BY MR. van AELSTYN: trying to speak over each other, et cetera. 21 I apologize. My questions are going to jump 21 Q. If you can answer. 22 around a bit because I'm sort of filling in places where 22 A. I can't. 23 I had a follow-up question. So the topic may shift a 23 O. Did anybody else have authority for the few times, but we'll do the best we can. 24 24 formulations of products that were manufactured at the 25 A. Uh-huh. 25 paint facility?

Page 70 Page 72 1 A. No. 1 A. No. 2 Q. No one else --2 MR. EDELSTEIN: Object to form. 3 3 A. Not during while I was there. BY MR. van AELSTYN: 4 4 Q. Do you recall what kind of trucks they arrived Q. Right. We're only speaking about your time 5 there. All right. 5 on, assuming they did? 6 6 A. No. And I believe you mentioned the name of the 7 7 Q. Okay. Was zinc ever added to any of the person that you replaced when you arrived. Was it 8 8 products manufactured at the 24th Street paint facility? Mr. Savage? 9 A. Ri- -- Richard Savage. 9 A. Zinc was in -- went into house paint. 10 Q. Richard Savage. And did he have the same 10 Q. Zinc did go into house paint? 11 position then that --11 A. Yes. 12 12 A. Yes. Q. And how was it provided or delivered to the 13 Q. -- you took? Okay. 13 facility? 14 All right. I believe you testified that lead 14 A. Generally in 50-pound sacks. O. 50-pound sacks? 15 naphtholate was used --15 16 A. Yeah. A. Naphthenate. 16 17 Q. Naphthenate. 17 Q. Do you recall what companies provided the zinc? 18 18 A. I think it was New Jersey. A. Yes. 19 Q. Could you spell that for the record, please? 19 Q. That was the name of the company? Not the lead. That we know. 20 20 A. I think it was New Jersey Zinc. 21 21 Q. Okay. And I apologize, to back up. I may not A. N-a-h-p-t-h-e-n-a-t-e (sic). 22 22 have been clear. With regard to the deliveries of lead, Q. Naphthenate. I would not win a spelling bee. 23 A. I won't either. 23 were those made in 55-gallon drums to the lacquer 24 O. I believe you testified both to lead 24 facility on Marin Street as well? 25 25 MR. EDELSTEIN: Object to form. naphthenate and lead pigment having been added to Page 71 Page 73 1 different products. Is that right? Or was it the same 1 THE WITNESS: None was used there. But some of 2 kind of thing, the lead? 2 it may have been delivered there for transportation to 3 A. In -- in -- in house paint, yes. 3 our plant by our -- in urban trucking. 4 4 Q. In house paint lead pigment was added? BY MR. van AELSTYN: 5 5 A. Yes. Q. I understand. Thank you. 6 Q. And lead naphthenate was added to industrial 6 Was mercury ever added to any of the products 7 7 paints? manufactured at the 24th Street facility? 8 MR. EDELSTEIN: Object to form. 8 A. Yes. Q. Which products was it added to? 9 THE WITNESS: Could be -- the naphthenate could 9 10 be in the house paint too. 10 A. Most water-based paints had mercury in them. 11 BY MR. van AELSTYN: 11 Q. And you were manufacturing water-based paints 12 Q. Okay. How was the lead that was used, either 12 in San Francisco? 13 lead naphthenate or other lead, how was it delivered to 13 A. Yes. 14 the paint facility? 14 Q. You were still doing oil-based paints, but you 15 MR. EDELSTEIN: Object to form. 15 16 THE WITNESS: Normally 55-gallon drums. 16 A. We were -- we were probably making more 17 BY MR. van AELSTYN: 17 water-based paints than oil-based paints by the time I 18 18 Q. So it was in a liquid form? 19 19 A. Yes. Q. Oh, really. Okay. I believe you've testified Q. Do you recall who supplied the lead products to 20 to this before, but if I could just ask again. What 2.0 21 the paint facility? 21 percentage of the products made at the 24th Street 22 A. Generally it would be Nuodex, Mooney, Ferro. 22 facility were the house-based paints? 23 That's as many as I can recall at the present time. 23 MS. O'BRIEN: The question may be vague and 24 Q. Do you recall how often deliveries of lead was 24 ambiguous with respect to time, but if you can answer 25 made? 25 the question.

	Page 74		Page 76
1	THE WITNESS: I'm guessing at 15 percent maybe.	1	A. What street?
2	BY MR. van AELSTYN:	2	Q. Thomas.
3	Q. Fifteen?	3	A. Thomas, no.
4	A. Maybe less, even that.	4	Q. Were you familiar with the Bay View Hunters
5	Q. Oh, okay. If I recall, you were in the	5	Point district in San Francisco?
6	San Francisco facility for approximately nine years,	6	A. Yes.
7	1961 to 1970?	7	Q. Okay. Did you ever hear of a Thomas Avenue or
8	A. Yes.	8	Street?
9	Q. Could you take us through that nine-year period	9	A. All I remember is the barracks.
10	and estimate, as best you can, what percentage of the	10	Q. The barracks, wow, yeah.
11	different products were manufactured during the spread	11	I'm going to mention some additional names for
12	of that time?	12	you. Were you familiar with a Harry Brennan?
13	A. I don't think I can. All I know is it was	13	A. Yes.
14	progressively less and less water paint or oil paint	14	Q. Who was he or is he?
15	and more and more water paint.	15	A. He is our varnish superintendent.
16	Q. Okay. And how about the ratio of industrial	16	Q. Varnish superintendent.
17	paints to home-based paints?	17	A. Yes.
18	A. Well, the home-based paints were far	18	Q. So did he work mainly at the Marin Street
19	exceeded the industrial paints.	19	facility?
20	Q. Far exceeded them?	20	A. No. He worked at the he did work at Marin
21	A. Yeah.	21	to some extent making cuts, varnish cuts. But he was in
22	Q. Okay. And was that true throughout the	22	charge of the varnish production at our alkyden
23	nine-year period?	23	open-kettle cooking.
24	A. Pretty much, yes.	24	Q. Do you know if he would have had any
25	Q. Okay. You were asked about sorry. Strike	25	responsibility for disposal of used 55-gallon drums?
	Dago 75		
	Page 75		Page 77
1	that.	1	A. I have no idea.
1 2		1 2	A. I have no idea. Q. How about the name Carl Moore?
	that. What kind of oil was used for the oil-based paints?		<ul><li>A. I have no idea.</li><li>Q. How about the name Carl Moore?</li><li>A. Carl Moore. I know the name. We also we</li></ul>
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Page 78 Page 80 1 A. Lin- -- he ordered everything --1 to form. Sorry. To the extent that you were talking 2 MR. EDELSTEIN: Object to form. 2 about being disposed. 3 3 BY MR. van AELSTYN: BY MR. van AELSTYN: 4 Q. Okay. Do you know if he had any responsibility 4 Q. High sided? 5 5 for disposing of materials? A. Yeah. 6 6 A. I don't know. Q. Okay. Was it a -- could you -- was it a 7 Q. Okay. Did Mr. Trager work at the facility the 7 flatbed truck with sides on it? 8 entire nine years that you were there? 8 A. I don't recall specifically. 9 9 A. I think he was there the whole time and then Q. Do you recall roughly how long the truck was? 10 came down to Los Angeles. 10 A. I'm guessing about maybe 20-feet long, I mean 11 Q. Again, just sorry to backtrack for a moment. 11 as far as the bed. 12 How about Carl Moore, the plant engineer, was he there 12 Q. Right. That's what I was referring to. Thank 13 the whole time that you were there? 13 you. 14 A. I'm not sure. I think he was. 14 And drums would then be stacked onto that bed? 15 Q. Okay. And how about Harry Brennan, do you know 15 A. Yes. 16 if he was there the whole nine years? 16 Q. And how high were they stacked? 17 A. He was there the whole time. 17 A. I don't recall. 18 Q. All right. One more name for you: Richard 18 Q. Were they stacked on their sides or standing? Marklin. A. I think they were on their side. 19 19 2.0 A. Yes. 20 O. On their side? 21 Q. Do you remember Mr. Marklin? 21 A. I think so. 22 A. Definitely. 22 Q. Speaking of the drums, do you recall, were they 23 O. Who was he? 23 open-topped drums, closed-topped drums or some other 24 A. He was the West Coast product -- production 24 kind? 25 25 manager. A. They could be both. Page 79 Page 81 1 Q. Was it fair to say that he was, then, in charge 1 O. They could be both. 2 2 of the overall --Do you know if any of the drums that were 3 A. He had the -- he had the same job I had but in 3 stacked on these trucks had any skins left inside of the 4 4 production. drums? 5 5 MR. EDELSTEIN: Object to form. Q. I see. THE WITNESS: I would have no idea of knowing. 6 A. And over me. 6 7 7 Q. Okay. Did you technically report to BY MR. van AELSTYN: 8 8 Mr. Marklin? Q. Do you know what I mean when I use the term 9 9 A. Yes. "skins"? 10 Q. All right. And was he there the full nine 10 A. It has to do with what's dried on the top 11 years as well? 11 probably. 12 12 Q. And was that a term that was used at the A. No. 13 13 Q. What period of time was he there, if you facility to refer to residue left in drums? 14 recall? 14 MR. EDELSTEIN: Object to form. 15 A. Probably from '63 on. 15 THE WITNESS: No, not as -- not as residue left 16 Q. All right. 16 in drums. BY MR. van AELSTYN: 17 A. That '63 is a guess. 17 Q. Fair enough. I was born in '62, so that's a 18 18 Q. What did it refer to? 19 long time ago as far as I'm concerned. 19 A. Skin on top of the can of paint. 20 20 O. Ah, okay. So, if someone said that there was You testified, if I recall, that the drums that 21 were disposed were picked up in a truck. I believe you 21 skins left in drums, it would be that material on the 22 described it as --22 top of a can of paint? 23 A. It seemed like it was high sided, so it could 23 MR. EDELSTEIN: Object to form. 24 BY MR. van AELSTYN: 24 carry more drums. 25 MR. EDELSTEIN: I'm sorry. I have an objection 25 Q. If you know.

Page 82 Page 84 1 1 A. I don't know. A. Yes. 2 Q. You don't know. Okay. Fair enough. 2 Q. Do you recall what pesticide was used? 3 3 Do you know if there was residue left in the A. Pentachlorophenol. drums that were stacked on those trucks? 4 Q. Pentachlorophenol. Do you recall how that was 4 5 5 A. Not on purpose. supplied to NL at the facility? 6 Q. But was there perhaps? 6 A. No. 7 7 A. I don't know. Q. I believe you testified about Monsanto 8 8 providing urea and melamine; is that right? Q. You don't know. Okay. 9 Are you familiar with the term "white lead"? 9 A. Possibly. 10 A. Yes. 10 Q. Possibly. 11 O. What is it? 11 A. Possibly. 12 Q. Might they have also provided the pesticide? 12 A. Basic lead carbonate. 13 Q. And was that manufactured at either the 24th 13 MR. EDELSTEIN: Object to the form. 14 14 Street facility or the Marin Street facility? THE WITNESS: I have no knowledge. 15 MR. van AELSTYN: Okay. I don't have any 15 A. I don't believe so. 16 Q. Do you know if NL manufactured it at any other 16 further questions. Thank you very much, Mr. Oberlin. 17 facility in the Bay area? 17 MS. O'BRIEN: Counsel on telephone, do you have 18 A. I don't think so. 18 any questions of the witness? 19 19 Q. Did NL have any other facilities in the Bay MS. ROSENTHAL: I do not. 20 area? 20 MS. O'BRIEN: Anyone else? 21 A. They had a lead plant on the west -- on the 21 MS. LESNIAK: I do. This is Kimberly Lesniak. 22 east bay where they made -- ulexites for batteries and 22 23 **EXAMINATION** so forth. 23 24 Q. Did it provide any supplies to the facility 2.4 BY MS. LESNIAK: 25 that you were at? 25 Q. Mr. Oberlin, I have a couple of questions about Page 83 Page 85 1 1 the Los Angeles plant that you were -- that you talked A. Possibly some litharge. 2 THE COURT REPORTER: I'm sorry? 2 about having worked for NL at. It's important, though, 3 THE WITNESS: Litharge. 3 since I'm over the phone, be sure to let me know whether 4 4 BY MR. van AELSTYN: or not you can hear me. And I'll also need you to 5 5 Q. Could you spell that for us, please? respond to me out loud rather than a nod of the head or 6 A. L-i-t-h-a-r-g-e. 6 a shake of the head, because I can't see that. Is that 7 7 Q. What is litharge? all right? 8 8 A. A form of lead oxide. MS. O'BRIEN: Kimberly, real fast, the Q. And it is used in some of the products? 9 9 videographer just let us know we only have five minutes 10 10 left in the tape. Do you anticipate your questions A. It was used as a catalyst occasionally in 11 11 alkyds. going longer than that? 12 Q. Oh, I'm sorry. Again, I apologize for jumping 12 MS. LESNIAK: I will try to make sure they 13 13 around just a little bit more. Do you know if Bedini don't. 14 Brothers was ever a customer of NL purchasing paint? 14 MS. O'BRIEN: All right. Well, when we get 15 A. I don't know. 15 down to the two-minute warning, he's going to let me 16 Q. Okay. Have you ever heard the name Jack 16 know and we may have to cut you off quickly, but you can 17 17 Hamilton? go ahead --18 18 A. I don't recall it. THE WITNESS: I'm having trouble understanding. 19 O. How about David Cannon? 19 MS. O'BRIEN: Okay. Kimberly, you're going to 20 have to speak up, and I've just moved you closer to the 20 A. No. 21 21 Q. Okay. How about Ed Waymeir? witness. 22 22 MS. LESNIAK: Okay. And I've also taken my A. No. 23 O. Just one moment. You testified about 23 phone off speakerphone, and I'm speaking into it. So 24 maybe that will help. Can you hear me now? 24 pesticides used in a wood preservative that was 25 manufactured; is that right? 25 THE WITNESS: Yes.

Page 86 Page 88 Q. The 1950s I guess to 1960 when you were in LA. 1 BY MS. LESNIAK: 1 2 Q. Okay. Mr. Oberlin, a couple of questions about 2 MS. O'BRIEN: Do you understand the question 3 3 the Los Angeles plant that you worked for NL at. or --4 Los Angeles is a big city. Is that the facility near 4 THE WITNESS: I will acknowledge that there was 5 5 Vernon, California? PCB in it. That's the extent of what I can tell you 6 A. Yes. 6 right at the moment. 7 7 Q. And were there any drums that you recall being BY MS. LESNIAK: 8 8 present at that plant when you were working there for Q. And do you recall whether any of those 9 9 materials that contain PCBs were ever stored in metal 10 10 A. Yes. barrels or drums? 11 11 MR. EDELSTEIN: Object to form. A. Not stored. They were shipped in drums. 12 12 Q. Okay. Received at the LA plant in drums? Kim, I also have a sort of a general -- I mean, 13 if you're trying to establish, you know, sort of 13 A. No. 14 Mr. Oberlin's work history or something, I don't have 14 Q. Shipped out in drums? 15 objections. But to the extent that you're asking for 15 A. Shipped out in drums to the -- to the 16 16 other reasons, I object to the line of questioning on manufacturer. 17 relevance grounds. Mr. Oberlin's here to talk largely 17 Q. Okay. And do you recall whether there were any 18 18 drums at the LA facility that were ever sent out to be 19 MS. LESNIAK: NL's 104(e) mentioned the Vernon 19 cleaned from it -- from the facility? 20 facility may have done business with the facility at 20 A. Yes. Drums were clean- -- sent out for 21 issue. So I'm just following up on that. 21 cleaning. But once they were sent to -- sent to the 22 MS. THOMAS: No, that's not correct. I don't 22 manufacturers, they weren't returned. 23 believe that's correct. 23 Q. Okay. Do you recall who cleaned the drums for 24 BY MS. LESNIAK: 24 NL from the Los Angeles facility? Q. Do you recall what chemicals or materials were 25 25 A. No, I don't. Page 87 Page 89 in drums at the Vernon facility? 1 1 O. Okay. 2 MR. EDELSTEIN: Okay. I do have an objection 2 MS. O'BRIEN: Kimberly, that's one minute. Do 3 to the line of questioning to the extent that there is 3 you have more? If so, we should go off and start a new 4 4 an attempt to establish some connection between the LA 5 5 facility and Bay Area Drum or Yosemite Slough. MS. LESNIAK: No, that will be it for me. 6 MS. O'BRIEN: Do you know? 6 MS. O'BRIEN: Okay. Anyone else? 7 7 BY MS. LESNIAK: I would propose the following stipulation: 8 8 Q. Mr. Oberlin, can you answer my question, what That the court reporter is relieved of her statutory 9 materials were contained in drums --9 duty with respect to the care and custody of the 1.0 A. I can't do it -- I can't do it within the time 10 original transcript; that the transcript be provided to 11 element. 11 my office for delivery to Mr. Oberlin; that he will sign 12 Q. In the 1960s, sir? 12 the transcript and make any necessary changes under 13 A. No. I'm talking about the hours it might take 13 penalty of perjury. I will then provide the original 14 to tell you all the materials that go into paint. 14 transcript for safekeeping to Mr. Edelstein's office, 15 Q. Okay. Well, how about if I just focus in on 15 and he will then notify all parties of the fact that the 16 the ingredients that went into the fencepost enamel? I 16 transcript has been signed and any changes that were 17 17 note the resins or the enamel itself or any of the made. 18 18 ingredients in that product --MR. van AELSTYN: So stipulated. MR. EDELSTEIN: Objection to form. 19 19 MR. EDELSTEIN: Agreed. 20 20 THE VIDEOGRAPHER: All right. With the BY MS. LESNIAK: 21 Q. -- that's contained in drums? 21 approval of counsel, this concludes today's video 22 MR. EDELSTEIN: To the extent that you're 22 deposition of Fred Oberlin. Today's deposition consists 23 asking about the 1960s, the testimony is that that 23 of one recorded DVD disk. The time is approximately 24 wasn't manufactured during that time. 24 12:21 p.m. We are now off the record. 25 BY MS. LESNIAK: 25 (The deposition was concluded at 12:21 p.m.)

## Fred E. Oberlin

	Page 90		I	Page	92
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1 2	ACKNOWLEDGMENT OF DEPONENT	1 2	ERRATA		
3	I, FRED E. OBERLIN, do hereby certify that I	3	ERRATA		
4	have read the foregoing pages,, and that	4			
5	the same is a correct transcription of the answers given	5	PAGE LINE   CHANGE/REASON		
6	by me to the questions therein propounded, except for the	6			
7	corrections or changes in form or substance, if any,	7			
8	noted in the attached errata sheet.	8			
9	noted in the attached critical sheet.	9			
10		10			
11	Executed this day of 2012, at	11			
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13	(City) (State)	13			
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	Page 91		I	Page	93
1	Page 91	1	I	Page	93
1	Page 91 REPORTER'S CERTIFICATION	1 2		Page	93
2	REPORTER'S CERTIFICATION	2	I LAWYER'S NOTES	Page	93
2	REPORTER'S CERTIFICATION  I, Kimberly Thrall, Certified Shorthand	2		Page	93
2 3 4	REPORTER'S CERTIFICATION  I, Kimberly Thrall, Certified Shorthand Reporter and Registered Professional Reporter, in and	2 3 4	LAWYER'S NOTES	Page	93
2	REPORTER'S CERTIFICATION  I, Kimberly Thrall, Certified Shorthand	2	LAWYER'S NOTES PAGE LINE		93
2 3 4 5	REPORTER'S CERTIFICATION  I, Kimberly Thrall, Certified Shorthand Reporter and Registered Professional Reporter, in and for the State of California, do hereby certify:	2 3 4 5	LAWYER'S NOTES		93
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2 3 4 5 6 7	REPORTER'S CERTIFICATION  I, Kimberly Thrall, Certified Shorthand Reporter and Registered Professional Reporter, in and for the State of California, do hereby certify:  That the witness named in the foregoing	2 3 4 5 6 7	LAWYER'S NOTES PAGE LINE		
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24 (Pages 90 to 93)

	54.2 50.6 69.10	ADDEADING 2.1	ha 40.0	29.22 20.7 49.22
<u>A</u>	54:2 59:6 68:19	APPEARING 3:1	<b>ba</b> 49:9	38:23 39:7 48:22
<b>abide</b> 67:19	alkyden 76:22	applying 20:1	back 18:12 51:16	68:4 69:12 70:6
ability 8:4,8	<b>alkyds</b> 15:3,10 24:22 25:6 33:5	approval 51:11,15	58:17 61:15 63:22 64:9,17 65:11	70:14,24 73:19
<b>able</b> 35:10		67:4,8 89:21	67:9 72:21	75:11,17 77:5
aboveground 60:16	33:17 34:5,12	<b>approximately</b> 6:7 9:16 51:13,17		79:21 82:15 84:7 86:23
accommodate 8:17	36:2,16,23 37:2,9		background 9:14	
acetate 52:11 57:14	37:12,16,20 38:24	67:6,10 74:6	backtrack 21:9	<b>best</b> 8:22 56:18 67:24 74:10
57:14	39:1 42:19,19	89:23	33:18 34:4 47:1	
acknowledge 88:4	43:3 44:7,8,21	<b>Archer</b> 2:3 6:18 7:21	78:11	<b>better</b> 13:10 25:18 63:2
ACKNOWLED	46:3,19 47:15,15		bake 45:12	
90:1	47:18 50:21 51:23	area 16:12 17:2	baked 14:17	Beveridge 2:16
acrylic 52:11	57:9 58:11,19,21	62:6 66:20 82:17	Baker 26:6	6:21
<b>Action</b> 1:5 6:11	83:11	82:20 87:5	baking 11:24 12:22	<b>big</b> 19:19 86:4
active 18:2,4	alkyd-based 27:23	Aroclors 59:25	13:18,22 14:1,20	birth 8:1
add 38:13	62:12	aromatic 15:15	14:21 16:15 18:25	bit 21:9 26:20
added 29:6,7 39:10	alkyd-type 27:7	arrived 34:2 53:19	19:14,15,16 20:10	28:25 51:8 55:2
40:5 42:21,22	75:5	70:7 72:4	20:13,22 21:10	60:19 67:22 83:13
44:10,14,20 46:5	alkyne 14:18	articles 15:23	25:20,25 46:3	body 38:11
47:20,23 57:21,24	altogether 49:2	asbestine 48:2,5	ball 26:5	<b>boiled</b> 38:13
70:25 71:4,6 72:7	<b>aluminum</b> 46:10	aside 43:11 54:3	<b>barracks</b> 76:9,10	<b>boiling</b> 11:3
73:6,9	ambiguous 73:24	asked 74:25 75:10	barrels 88:10	<b>born</b> 79:18
addition 15:17	amount 59:5	asking 42:15 86:15	base 12:9 42:23	bought 63:23 64:14
additional 76:11	analysis 10:6,7	87:23	46:18 48:1	64:21 66:17
additives 52:18	Angeles 17:8 18:18	associated 31:22	based 12:10,10	Box 3:9
address 62:3 75:24	18:18 22:7,11,25	association 17:10	41:16 62:14	<b>Boy</b> 31:16 64:13,18 <b>break</b> 8:15 51:9
administered 91:9	23:13,14 35:13	associations 16:4	<b>basic</b> 11:21 16:1 82:12	
<b>Aelstyn</b> 2:17 4:4	50:14 61:14,15,19 68:17 78:10 85:1	16:25 23:12,25 32:6,18	Basically 16:16	breaks 8:17 Brennan 76:12
6:21,21 67:13,16	86:3,4 88:24	assume 19:9	35:5	78:15
68:21 69:20 71:11	anhy 36:18	assuming 72:5	basis 16:12 17:24	<b>briefly</b> 9:13
71:17 72:3 73:4	anny 30.18 anhydride 15:8	attached 90:8	batch 39:22 40:22	bring 55:8
74:2 78:3 80:3	36:18,18		41:6 43:3,7 58:22	<b>Brothers</b> 66:4,6
81:7,17,24 83:4	answer 5:3 8:22 9:9	attempt 87:4 attend 9:17	batches 40:20	75:11,22 83:14
84:15 89:18	9:9,10 35:23 53:7	attended 9:15	batteries 82:22	bugs 53:12
affect 8:4,8	69:21 73:24 87:8	attenued 9.13 attorney 7:21	bay 66:20 76:4	buildings 53:18
agent 77:22,23	answered 21:4	authority 69:23	82:17,19,22 87:5	built 61:13,22,25
agents 52:20	answering 8:23	<b>Avenue</b> 2:4 3:4	bed 80:11,14	bundled 28:25
<b>ago</b> 79:19	answering 8.23 answers 54:5 90:5	75:25 76:7	<b>Bedini</b> 66:4,6 75:10	business 86:20
<b>Agreed</b> 89:19	anticipate 85:10	average 49:18	75:13,15,22 83:13	butadiene 52:11
<b>Ah</b> 63:4 81:20	anticipated 48:19	aware 29:15 31:3	bedsprings 25:21	butyl 57:14
ahead 85:17	anybody 7:3 22:1	34:18 59:13,17	bee 70:22	Duty1 37.14
air-dry 25:20	69:23	60:3,10,15	began 73:15	C
alcohol 57:15	apologize 35:20	<b>a.m</b> 1:17 6:2,7	beginning 1:17	<b>calcium</b> 48:2 52:17
alcohols 15:17	67:21 72:21 83:12	51:13,17 67:6,10	35:22	Caldwell 62:22,25
aliphatic 15:15	APPEARANCES	31.13,17 07.0,10	behalf 6:19,22	63:1,12,13
alkyd 15:6,7 20:19	2:1	В	believe 34:20,24	<b>California</b> 1:2,17
42:14 43:10,15	<b>∠.1</b>		DEHEVE 34.20,24	
	<u> </u>	<u> </u>	<u> </u>	I

2:13,18 3:14 6:1,9	86:25	coke 10:23 11:5	<b>control</b> 48:1 68:15	30:20,22,24,25
6:13 22:8 86:5	chemist 18:19	<b>cold</b> 56:8	69:3,4,7,9	69:11 83:14
91:5	21:20,21 22:24,25	<b>college</b> 9:15,17,21	controls 23:3,6,8	customers 18:25
call 20:22	23:2,2,4,5 32:1	9:24 10:2,9	31:20 69:6	19:2 31:2 33:8
called 11:23	65:21,23	<b>color</b> 54:14,15	cook 38:15	cut 63:6 85:16
<b>Cannon</b> 83:19	chemistry 10:5,7	colored 46:10	cooked 15:7	cuts 56:8 76:21,21
cans 46:15	chemists 16:11	combine 38:14	cooking 76:23	cutting 55:10
<b>capacity</b> 53:5 66:8	chief 22:25 23:2,4	come 18:19 19:20	Corporation 2:6	<b>CV</b> 1:6 6:11
66:16	31:25	53:25	11:16,20 12:12	
carbon 11:4	chronology 18:12	commencement	14:16 15:18 16:3	D
carbonate 48:2	city 86:4 90:13	91:8	17:4 18:6,9,15,23	Dallas 2:8
52:18 82:12	<b>Civil</b> 1:5 6:11 91:10	Commercial 3:13	21:1 22:6 26:1	<b>date</b> 1:18 6:6 8:1
care 89:9	clarify 50:20	<b>committee</b> 17:17,19	45:13	<b>David</b> 2:3 6:18 7:20
Carl 77:2,3 78:12	classes 10:4,6	17:22,25	<b>correct</b> 12:18,20	83:19
Carlos 3:14	clean 13:7 88:20	commuting 64:23	17:7 19:11,12	day 34:23 41:3 42:3
carry 79:24	cleaned 40:23	companies 72:17	27:24 31:17 36:6	42:5 43:18,24
cars 55:8	88:19,23	<b>company</b> 3:7,7,8,11	36:13 37:23 38:7	44:1 57:2 59:7
caster 57:9	cleaning 88:21	3:12 7:2,2,6 10:13	39:7 40:13,14	90:11 91:18
catalyst 83:10	clear 8:24 72:22	16:1 22:7 63:23	42:19 44:18,22	days 34:19 57:4,5,6
category 26:17	Cleveland 9:15	63:25 64:13 66:4	45:15 61:3 64:7	dedelstein@arch
52:7	10:23 11:18 16:6	66:12,13 72:19	64:15 68:7 69:14	2:5
Centre 2:7	16:8,12 17:2,12	composition 11:4	69:15 86:22,23	dedicated 56:3
certain 41:13 61:3	18:15,23 19:1	computer-aided	90:5	<b>Definitely</b> 78:22
CERTIFICATI	26:6 68:17,18	91:13	Correction 27:17	delivered 71:13
91:1	client's 20:7	concerned 19:3	corrections 90:7	72:12 73:2 75:7
<b>Certified</b> 1:19 5:12	Close 63:14	79:19	correctly 13:17	deliveries 71:24
91:3	<b>closed</b> 33:22,23,25	concluded 89:25	21:8 30:9 31:7,24	72:22
<b>certify</b> 90:3 91:5	56:15,16 61:12	concludes 89:21	38:16	delivery 89:11
<b>cetera</b> 67:20	62:17 63:21 64:3	conclusion 45:16	<b>counsel</b> 6:14,16 7:7	department 11:22
<b>change</b> 31:21 36:25	64:22 65:10	conditions 8:3	51:12,16 67:5,9	38:11
61:17 62:24	closed-topped	confused 68:23	84:17 89:21	depended 14:2
changed 63:7	80:23	confusing 9:3	<b>couple</b> 67:17 84:25	15:14
changes 27:18	<b>closer</b> 85:20	connected 60:24	86:2	depending 27:4
38:21 89:12,16	closures 45:24	connection 58:5	<b>course</b> 10:2 14:19	47:24 49:12 52:12
90:7	<b>coal</b> 10:22,23 11:10	66:22 87:4	15:5 42:3 46:4	<b>deponent</b> 6:13 90:1
CHANGE/REAS	<b>coast</b> 31:15 32:3	consistent 35:2	48:16 49:10	deposition 1:15 5:1
92:5	35:12 37:14 61:13	consists 89:22	courses 10:6	6:8 66:23 89:22
<b>charge</b> 22:4 23:3,4	62:5 63:3,4,11	constituted 25:19	<b>court</b> 1:1 6:12 7:9	89:22,25 91:8,9
23:6 31:19 38:4	78:24	contain 88:9	8:13 10:15 48:3	deps@golkow.com
68:14,20 69:3,4	<b>Coating</b> 16:8 23:22	contained 87:9,21	83:2 89:8	1:25
76:22 79:1	24:2 32:9	content 15:15	criticism 13:7	<b>describe</b> 9:13 14:14
<b>checking</b> 11:3,3,4,4	<b>coatings</b> 11:24 16:7	continue 23:11	<b>crude</b> 19:18	36:1,15 38:9 40:4
<b>Chemical</b> 10:3,13	23:14 45:25	32:5 61:12	<b>CSR</b> 91:22	described 14:22
10:16,17,20 11:12	<b>cobalt</b> 39:14,17	continuously 28:20	currently 8:3,7	20:4 26:1,23
11:15	46:24	contract 15:20	custody 89:9	27:18,22 39:18
chemicals 10:24	<b>Code</b> 91:10	CONTRAN 2:6	<b>customer</b> 19:8 23:9	45:9,12 47:10
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	ı	ı	ı	1
49:6 79:22	<b>district</b> 1:1,2 6:12	E	21:10,12 25:25	F
DESCRIPTION	6:13 76:5	E 1:15 4:2 7:12,25	26:15,16,18,21,24	F2:3
4:9	<b>division</b> 16:2 64:14	90:3,17	27:11 29:3 45:12	facil 62:25
designed 61:13	<b>DOCUMENTS</b> 5:6	earlier 24:6 26:18	endurance 8:17	facilities 32:3,20,25
destinations 55:25	doing 10:17 11:6	26:20 45:12 50:21	<b>engineer</b> 77:6,14	35:11,13,14 37:14
develop 12:16	27:5 63:2,3 73:14	early 30:18,25	78:12	50:12 61:11 63:10
13:14,18	domestic 14:5	47:17	engineering 10:3	65:15 69:3,5
developed 14:23	<b>dough</b> 26:6	east 22:18,20 63:4	<b>entail</b> 11:2 61:23	82:19
15:20 16:22,22	<b>drain</b> 19:21	82:22	<b>entire</b> 16:16 62:5	facility 20:6 22:12
19:5,7,7 27:19	<b>dried</b> 19:21 81:10	economical 11:23	78:8	22:14,16 24:9,12
developing 13:25	drier 39:19,21,23	Ed 83:21	entities 65:12	24:16 25:24 26:25
14:9 15:19 36:10	57:18,20 62:12	<b>Edelstein</b> 2:3 4:3	<b>entity</b> 44:19 66:3	27:3 28:13 29:16
62:4,7	<b>driers</b> 38:13 39:8	6:18,18 7:16,20	equally 13:25	29:22 31:8,9,11
development 11:10	39:10,12,17,17,17	13:8 41:23 42:9	equipment 26:2	32:22,25 33:4,21
13:2 14:25 15:10	39:18,25 40:5	48:6 51:7,18 67:2	<b>Ernest</b> 75:15	33:23 34:5 35:7
16:15 29:25 46:16	46:22,23 57:16	67:18 68:13 69:19	<b>Ernie</b> 75:15	35:17 37:22 40:1
68:14	dropped 38:25	71:8,15 72:2,25	errata 90:8 92:2	40:15,25 42:11,20
development-wise	dropping 28:22	78:2 79:25 81:5	<b>ESQUIRE</b> 2:3,7,12	43:15 44:25 45:20
63:3	<b>drum</b> 43:7 50:3,4,5	81:14,23 84:13	2:17 3:3,8,13	47:12 51:1,2
<b>Diamond</b> 2:16 6:22	66:11,13,20 75:18	86:11 87:2,19,22	Essentially 37:5	53:20 54:18 55:3
dibutyl 57:9	87:5	89:19	establish 86:13	55:6,7,11,14,20
differ 69:7	drums 40:17,19,22	Edelstein's 89:14	87:4	56:1,3,7,12,20
difference 23:1	40:24 41:3 42:11	educational 9:14	estimate 74:10	58:2,12,16 59:7
31:24	42:17 43:4,10,15	either 40:12 46:9	estimating 41:20	59:14,19 60:4,12
different 10:5	43:18,24 50:22	46:10 47:14 59:18	41:21	60:17 62:1 68:4
14:14 18:23 19:16	53:25 54:2,2,7,25	60:16 70:23 71:12	<b>et</b> 67:20	68:25 69:13,14,25
20:5,10,16,19	58:19 59:2,6	82:13	ethyl 57:14	71:14,21 72:8,13
26:3 27:16 28:16	66:17 71:16 72:23	elected 60:23	evaporation 20:20	72:24 73:7,22
41:7 45:9 46:17	76:25 77:18 79:20	element 87:11	events 8:4	74:6 76:19 78:7
51:8 71:1 74:11	79:24 80:14,22,23	<b>EMC</b> 1:6 6:11	exactly 26:19	81:13 82:14,14,17
differentiating	80:23 81:2,4,13	Emeryville 64:24	EXAMINATION	82:24 84:5 86:4
42:13	81:16,21 82:4	<b>empty</b> 40:21,24	4:1 7:15 67:12	86:20,20 87:1,5
<b>dioxide</b> 47:25 52:16	86:7 87:1,9,21	41:3 43:10,15,18	84:23	88:18,19,24
<b>dip</b> 19:19,20 28:20	88:10,11,12,14,15	54:2,2,25 59:1	example 77:25	fact 89:15
28:21,22	88:18,20,23	enamel 11:21 18:25	<b>exceeded</b> 74:19,20	<b>fair</b> 45:17 68:5 79:1
<b>dipped</b> 19:19	<b>dry</b> 38:13	19:15,16,17,23	Executed 90:11	79:18 82:2
dipping 20:5	<b>drying</b> 20:13,21	20:1,10,11,12,25	<b>EXHIBIT</b> 4:8,9	fairly 35:5
<b>direction</b> 5:3 91:13	28:19,24	25:20,21 28:15,16	experience 18:7	fall 25:3 52:6
directly 9:20	<b>duly</b> 7:13 91:9	30:1,11,13 33:11	explain 15:4,6	<b>familiar</b> 76:4,12
directors 63:7	dumped 43:7	44:11 46:3 87:16	extended 52:17	82:9
disk 89:23	durable 11:23	87:17	extenders 48:1	<b>far</b> 10:25 19:2 20:9
disposal 76:25	<b>Dutch</b> 31:16 64:12	enamels 11:24	<b>extent</b> 20:17 41:9	74:18,20 79:19
77:18	64:18	12:22 13:12,15,19	60:14 76:21 80:1	80:11
disposed 79:21	duty 89:9	13:22 14:1,17,20	86:15 87:3,22	<b>fast</b> 9:3 20:20 28:19
80:2	<b>DVD</b> 89:23	14:21 16:15 19:14	88:5	28:24 85:8
disposing 78:5	<b>D.C</b> 17:18	19:15 20:9,16	exterior 26:16	<b>faster</b> 20:12

	İ		İ	İ
<b>fault</b> 13:9	follows 7:13	76:5	Golkow 1:24 6:5	help 18:12 29:4
<b>favor</b> 10:14	<b>follow-up</b> 67:18,23	Fred 1:5,15 4:2	<b>good</b> 7:17,18 28:7	61:1 85:24
<b>fax</b> 1:24	<b>force</b> 19:21	6:10,13,17 7:12	42:15 51:10 67:14	helped 61:2
<b>federal</b> 14:10 60:25	<b>foregoing</b> 90:4 91:7	7:25 89:22 90:3	67:15	helping 12:16
61:2	91:14	90:17	goods 11:22,25	13:14,18
<b>fencepost</b> 19:15,16	<b>forgot</b> 46:25	free 62:11	government 15:24	hereunto 91:17
19:18 20:5,11,12	form 42:23 68:13	Freeway 2:8	governmental 12:4	<b>high</b> 9:20,23 35:4
20:24 21:12 26:17	69:19 71:8,15,18	frequently 16:19	Gradually 27:8	43:19,21,22 44:2
26:21,24 28:14,16	72:2,25 78:2 80:1	<b>full</b> 79:10	<b>great</b> 67:19	79:23 80:4,16
29:3 30:13 33:11	81:5,14,23 83:8	<b>fully</b> 16:18	greatest 39:19	highest 42:4
44:11 87:16	84:13 86:11 87:19	furnace 25:21	<b>Greiner</b> 2:3 6:19	high-sided 54:13
fenceposts 19:20,24	90:7	45:23	7:21	history 86:14
20:2 28:22	formaldehyde	furnaces 45:24	grounds 86:17	<b>holding</b> 63:23,25
<b>Fenn</b> 9:15	14:18,19	<b>further</b> 20:21 84:16	<b>group</b> 2:15 3:3 6:22	64:13
<b>Ferro</b> 10:12 11:16	formulate 14:9	F-e-r-r-o 11:17	17:17 67:17 68:19	holidays 34:25
11:20 12:12 14:16	formulating 12:14		guess 35:24 42:8	home 11:22 33:9
15:18 16:3 17:4	formulation 30:4	G	49:7 79:17 88:1	47:16 49:7,8,9
18:6,9,10,15,22	30:11 36:15,25	gallons 39:24 42:2	<b>guessing</b> 30:8 41:18	homeowner 24:11
19:23 21:1,5,16	38:9,21 45:6	58:10	41:20 49:15 74:1	24:15 26:11,12,13
22:6,9 26:1 45:13	52:12 65:25	Gate 32:12,13,14	80:10	homeowners 28:11
71:22	formulations 12:17	general 10:6 15:11		33:10
Fifteen 74:3	13:15,18 14:1,9	30:5 47:24 62:9	<u>H</u>	homes 26:14 27:11
<b>fill</b> 35:11	15:1 31:5 36:11	86:12	Haddon 2:4	home-based 49:4
<b>filling</b> 67:22	37:25 38:3 44:4	generally 15:3	Haddonfield 2:4	74:17,18
<b>fine</b> 35:23 42:6	56:23 63:9 69:24	26:16 32:24 46:9	half 44:1	home-paint 47:10
<b>finish</b> 8:21,24 13:3	formulators 63:12	46:19 71:22 72:14	<b>Hamilton</b> 83:17	47:13,21 48:10
<b>finished</b> 10:19 11:1	<b>forth</b> 16:13 17:24	generated 54:17,20	handled 43:6 54:22	51:24 52:7
37:18 38:19 39:13	26:7,8 38:12	54:21	Hangmen 60:23	honorary 60:24
40:11 50:25 51:5	45:24 52:20 53:15	getting 68:23	happened 28:2	<b>honors</b> 60:21
52:2 55:9,18,23	58:17 69:6 82:23	give 25:18	59:1 64:15	<b>hour</b> 51:9
55:23,24 56:3	<b>four</b> 9:16 10:5	given 35:21 41:3	happens 40:21	hours 34:23 57:2
58:8 69:10	63:14	42:12 90:5	happy 8:16	87:13
finished-product	Francisco 2:18	gloss 48:1	hard 20:19 29:4	house 28:2 38:12
11:7,8	23:19,20 28:3	<b>glycerin</b> 15:8 36:17	38:14	48:15 62:12 71:3
first 7:13 8:11	31:9,22 32:2,2,7,8	<b>go</b> 8:11 9:20 19:21 45:25 56:8 63:9	<b>Harry</b> 76:12 78:15 <b>head</b> 9:1 64:10 85:5	71:4,10 72:9,10
10:12 27:5 49:12	32:13,21 33:15,19			house-based 73:22
68:3	34:9 35:15,17	63:17 64:11 67:2	85:6	Houston 3:9
five 57:5,6 85:9	37:13 40:1 44:17	72:10 85:17 87:14	hear 9:2 16:13 66:3	<b>Huh-uh</b> 60:9
fives 50:2	44:21 45:19 47:5	89:3	66:6,19,23 75:13	hundred 39:23
flatbed 58:18 80:7	48:13,21 50:13	<b>going</b> 10:8 20:13 23:2 44:24 45:23	75:24 76:7 85:4 85:24	hunt 19:1
Floor 1:16 2:13	55:4 56:13,20			Hunters 76:4
focus 19:13 87:15	59:16 60:1 61:11	46:25 48:20 51:9	heard 9:4 66:7,8,11	I
focused 14:8 16:14	62:17 65:4,10,11	51:12 67:5,21 69:10 76:11 85:11	66:14,23 75:11,18 83:16	idea 29:21,24 30:6
focusing 10:2	65:15,17,18,20	85:15,19	heat 28:25	35:16,19 39:16
<b>following</b> 86:21	68:4,12,18,24	Golden 32:12,13,14	held 1:16 6:8	41:2,5 43:14 49:3
89:7	73:12 74:6 75:25	Guiuen 52.12,13,14	11CIU 1.10 0.0	41.4,5 45.14 49.5
	l			

		_	_	_
49:9 59:5 77:1	issue 86:21	35:22,23,24 38:4	laboratories 31:16	86:16 87:3 92:5
81:6	<b>It'd</b> 41:18	39:2 40:8,21	68:15,16,16 69:4	93:5
identified 77:6		41:17,24 42:3,6,7	69:8,9	linseed 75:4 77:24
identify 6:15	J	43:16,17 53:7,19	laboratory 10:18	liquid 71:18
II 12:1	<b>Jack</b> 83:16	53:22 54:5,6,7,11	13:2 31:18,19	litharge 83:1,3,7
important 85:2	jackets 25:22	54:14,16,19,24	61:14 62:20 68:19	little 21:9 26:20
included 26:17	<b>Jersey</b> 62:19,19	56:2,21 57:25	69:7	28:25 51:8 55:2
49:11	64:6 65:21 72:18	58:8,15 59:1,12	labs 31:17	59:9 60:19 83:13
including 25:21	72:20	61:7 66:8,16	lacquer 55:10 56:6	<b>LLP</b> 2:12
incorrect 21:4	<b>Jillisa</b> 2:12 6:16	70:20 74:13 75:20	56:11,19,24 57:8	<b>located</b> 22:14,16
increased 34:12	<b>Jim</b> 6:5	75:22 76:24 77:3	57:17,18,20,22,24	31:12 68:22 75:20
<b>INDEX</b> 4:1,8 5:1	<b>job</b> 21:19 22:22	77:17,19 78:4,6	58:1,11,24 59:1,8	75:22
indicate 26:12	23:1 31:21 61:17	78:15 81:2,8,25	59:10 68:6 69:14	long 11:12 18:9
indicated 10:8	63:2,8 65:7 79:3	82:1,2,3,7,8,16	72:23	27:12 33:19 62:16
38:20,23 39:8	jobrien@mmnt.c	83:13,15 85:3,9	lacquers 25:8	63:5,13,24 79:19
40:11	2:14	85:16 86:13 87:6	large 55:20	80:9,10
individual 19:8	<b>jobs</b> 9:25	knowing 81:6	largely 86:17	longer 19:9 61:6
industrial 14:17	<b>Joe</b> 75:13	knowledge 47:6	larger 24:3 42:25	62:11 85:11
22:24 23:2,5	<b>John</b> 77:21	56:18 69:18 84:14	law 3:3 8:13	looked 29:18 54:12
24:10,14 25:17,19	<b>jump</b> 67:21	known 66:3,19	<b>LAWYER'S</b> 93:2	Lopez 6:5
25:24 33:8 45:11	<b>jumped</b> 45:16		LBJ 2:8	Los 17:8 18:18,18
45:17,19 46:2,5	jumping 83:12	L	lead 27:6 39:15,17	22:7,11,25 23:13
47:1,2 49:5 50:9	K	L 2:12	39:20,23,25 48:14	23:14 35:13 50:14
51:23 71:6 74:16		LA 18:22 19:13	48:20 49:1,11	61:14,15,19 68:17
74:19	Kansas 68:24	21:9,16 22:17	57:16,21 62:9,11	78:10 85:1 86:3,4
Industries 1:4 2:2	keel 35:6	23:11,21,21 24:2	62:12 70:14,20,24	88:24
6:10,19,20 7:22	<b>Kelly-Moore</b> 3:11	24:9 25:15,18,24	70:25 71:2,4,6,12	loss 35:14
<b>industry</b> 16:16 27:5	3:12 7:6	26:24 27:3,12,20	71:13,13,20,24	<b>lot</b> 18:24
ingredients 27:2	kettle 36:4,4,5 kettles 36:3	28:1,5,13,18 29:3	72:22 75:4 77:25	loud 85:5
87:16,18	kill 53:11	29:15,22 30:14	82:9,12,21 83:8	low 35:3 43:19,21
inside 81:3	<b>Kim</b> 7:9 86:12	31:1,8,17,18 32:1	leak 60:8	50:15
instruction 35:21	Kimberly 1:18 3:8	44:9 45:13,14,20	leaving 23:18	<b>L-i-t-h-a-r-g-e</b> 83:6
instructions 8:11	7:1 84:21 85:8,19	61:25 62:6,16	<b>left</b> 28:1 49:13,17	
intended 9:5	89:2 91:3,22	63:22 64:2,3,9,17	63:20 73:18 81:3	<u>M</u>
<b>interior</b> 26:15,15	kim.lesniak@she	64:22 65:20 87:4	81:13,15,21 82:3	machines 11:25
interrupted 23:17	3:10	88:1,12,18	85:10	main 1:16 2:13
introduce 7:19	kind 12:5 15:9 71:2	lab 11:6 12:16 13:1	length 15:14	46:9
<b>involved</b> 11:9 14:11	72:4 75:2 80:24	13:14,18 22:1,4,7	<b>Lesniak</b> 3:8 4:5 7:1	major 10:1
16:4,25 17:6,8	kinds 41:7	36:6,7 37:1 38:1,5	7:1 84:21,21,24	majority 28:5,7
23:12 32:5,17	knocked 49:1	45:4,5,6 54:20,21	85:12,22 86:1,19	47:25
37:23 60:22	know 8:6,16,20 9:4	56:22 61:22,25 <b>label</b> 33:8 46:11,13	86:24 87:7,20,25	making 10:24 11:21,24 19:10
involvement 12:11	14:24 15:9,16,21	46:14,17 47:8	88:7 89:5	28:1 62:10 73:16
12:21 13:11 45:1	22:14,16 29:9,11	51:23	let's 21:9	76:21
in-can 53:14	29:18 30:16,22	labeling 17:16	Lin 78:1	maleic 36:18,18
Irvine 1:17 2:13	31:11,14 35:7,10	labels 17:23	Lincoln 2:7	man 15:22,23
6:1,8		140015 17.23	line 6:23 7:4 19:21	111411 13.44,43
	l	l	l	l

21.22	, ,,,,,			
manager 21:25	market 15:18	michelle@verisla	named 77:12 91:7	NL's 26:24 27:3
78:25	marketed 15:22	3:5	names 76:11 77:20	31:8 86:19
manganese 39:14	<b>Marklin</b> 78:19,21	Midwest 19:1	77:21	nod 85:5
46:24	79:8	mildew 53:18	naphthenate 39:14	<b>nods</b> 9:1 64:10
manu 22:19	material 15:7 81:21	military 14:24 15:2	39:15,15 70:16,17	<b>normal</b> 20:13
manufacture 10:21	materials 14:14,25	15:20	70:22,25 71:6,9	Normally 71:16
12:14 25:4 28:9	20:15 25:14 26:9	mills 26:5,5 31:1	71:13	<b>Northern</b> 1:2 6:12
28:12 29:2,8	26:10 27:16 29:19	mineral 40:9	naphtholate 70:15	<b>note</b> 87:17
36:22 44:6,10,12	37:5 46:1,16,21	<b>minute</b> 22:20 47:1	national 17:9,12,15	<b>noted</b> 7:7 90:8
44:13,17,25 46:2	47:12 51:19 52:10	89:2	17:16,24 22:7	<b>NOTES</b> 93:2
47:2,7,13 49:19	52:21,25 53:22,23	<b>minutes</b> 51:9 67:3	24:3	<b>notify</b> 89:15
57:8	53:24 57:7 78:5	85:9	nature 24:8 62:23	<b>number</b> 29:13
manufactured	86:25 87:9,14	<b>MISC</b> 1:6 6:11	65:24	42:10,16 43:14
21:10,12 24:15,20	88:9	missed 51:22	near 86:4	45:9 51:20
24:21,22 25:6,8	matter 6:9	mistake 27:25	necess 34:13	Nuodex 71:22
25:15,18 26:13,23	McCloskey 65:6	mixers 26:6	necessary 89:12	nvanaelstyn@bd
26:24 27:3 28:13	mean 17:3 23:7	modifiers 44:8	necessity 34:13	2:19
28:17 30:13,17,19	41:10,12,12 53:8	moment 35:19 60:6	need 8:15 85:4	N-a-h-p-t-h-e-n
33:3,13,17 34:5,8	53:10 57:11 62:19	78:11 83:23 88:6	needed 62:6	70:21
34:14 36:2 37:22	63:6 69:2 80:10	<b>Monsanto</b> 29:10,19	NELSON 2:12	
39:25 41:25 42:5	81:8 86:12	59:17,21 60:1	new 61:13,22,25	0
43:3 44:21 45:7	medical 8:3	84:7	62:3,7,19,19 64:6	oath 8:12,13 91:9
45:10,13,18,20	medication 8:7	Montgomery 2:17	65:21 72:18,20	<b>Oberlin</b> 1:5,16 2:11
46:12 47:11 48:11	meet 14:10 16:12	month 16:20	89:3	4:2 6:11,13,17
48:22,23 50:17	16:19	monthly 16:12	newer 62:8	7:12,17,25 8:1
51:21,25 52:3	meetings 16:21	months 64:24	newsletters 16:22	51:19 67:14 84:16
53:23 56:6,11,19	17:15	<b>Mooney</b> 71:22	Nicholas 2:17	84:25 86:2 87:8
56:24 58:13 69:13	melamine 14:18	<b>Moore</b> 77:2,3,9	67:16	89:11,22 90:3,17
69:17,24 72:8	46:4 59:21 84:8	78:12	Nico 6:21	<b>Oberlin's</b> 86:14,17
73:7 74:11 82:13	melamines 59:20	Moores 77:4	<b>night</b> 9:16 10:9	<b>object</b> 68:13 69:19
82:16 83:25 87:24	59:23	morning 7:17,18	nine 74:6 78:8,16	71:8,15 72:2,25
manufacturer	melting 11:4	67:14,15	79:10	78:2 81:5,14,23
19:18,19 88:16	member 16:6 17:16	move 31:22	nine-year 74:9,23	84:13 86:11,16
manufacturers	17:19 18:1,2,4	moved 31:8 64:17	nitrocellulose 57:9	<b>objection</b> 9:8,8
15:23 45:23 88:22	23:16,24 60:20	85:20	<b>NJ</b> 2:4	79:25 87:2,19
manufacturing	men 63:2	MURTAUGH 2:12	<b>NL</b> 1:4 2:2 6:10,19	objections 86:15
15:23 19:23 24:12	mention 76:11	<b>Myers</b> 66:11 75:18	6:20 7:22 22:9,23	occasion 41:1
25:23,25 33:1	mentioned 46:11		27:17 28:13 32:6	occasionally 50:3
34:18 73:11	55:3 61:22 70:6	N	32:20 35:10,13	83:10
<b>Marin</b> 32:22 55:3,5	86:19	name 6:5 7:20,23	45:21 49:19 50:12	occur 27:20
55:6,11,14,25	mercury 73:6,10	15:25 16:1 59:23	55:3 59:17,25	occurred 20:5,7
56:2,7,11,19,24	met 7:19 23:9	64:13 66:7,9,11	61:9,12 63:17,19	26:1 39:3
57:2 58:1,12,16	metal 88:9	66:14,24 67:16	63:20 64:12 66:24	October 1:11 6:1,6
59:6,14,18 60:4	<b>MEYER</b> 2:12	70:6 72:19 75:11	75:8 82:16,19	91:18
60:11 68:6 72:24	<b>Michelle</b> 3:3 6:24	75:13 77:2,3	83:14 84:5 85:2	Odd 9:25
76:18,20 82:14	6:24	78:18 83:16 91:18	86:3,9 88:24	<b>OFFERED</b> 4:10

<b>Offhand</b> 62:13	45:17 46:1,8,11	organic 10:7 11:23	47:24,25 48:15	particularly 35:4
office 89:11,14	46:23 47:18,20,23	organization 16:11	49:22,23 50:22,25	parties 89:15
oh 17:3 19:12 46:7	48:9,19,24 49:8	17:13 23:13	52:5,22 53:15	part-time 65:7
52:5 56:5 57:13	49:14,19,19 50:10	organizations 16:5	58:5 60:24 64:14	PCB 20:24 29:11
65:5 68:23 73:19	50:17 51:3,10	17:1,7 60:20,22	64:14 68:7,9,12	88:5
74:5 83:12	52:6,9,13,15,24	original 89:10,13	69:13,25 71:3,4	PCBs 20:23 28:9
oil 3:7,8 7:1 12:9,10	53:13,17,19 54:1	originally 22:24	71:10,14,21 72:8	28:12,14 29:2,9
15:8,9,10,14	54:1,9,14,16,20	ovens 10:23	72:9,10 74:14,14	29:15 30:7,9 31:3
26:14 27:2,5,6	54:24 55:2,22	overall 30:3,11	74:15 81:19,22	36:22 37:8 44:3,9
28:5 36:17,19,20	56:2 57:2,4,7 58:8	49:4 79:2	83:14 87:14	44:14,20 47:2,7
36:21 38:13,14	58:21 59:5 60:15	oversee 45:6	paints 12:2,3,4,5,6	48:7,10 52:24
40:5 46:20 47:17	60:19 61:9,11,17	overseeing 21:23	12:6,7,8,14,17	57:21 59:13,25
57:9 74:14 75:2,4	61:22 62:16,21	37:1,23,24,25	13:19,23 14:1,9	69:14,16 88:9
75:6,6 77:24	63:5,17,24,24	45:1 56:22,23	14:15,17,23 15:1	penalty 89:13
oils 15:11 38:12,13	64:2,6,15,17,25	63:8 65:15,25	15:19 16:15 19:10	Pennzoil-Quaker
39:6,8,9 47:15	65:2,8,10,19,25	oxide 27:6 83:8	23:8,14 24:10,11	3:7 7:2
75:7	66:3,11,19,22	oxygen 28:21	24:15,15,23,24	Pentachlorophenol
oil-based 12:7	67:1 70:13 71:12	<b>O'Brien</b> 2:12 6:16	25:1,17,24 26:7	84:3,4
27:23 48:15 73:14	72:7,21 73:19	6:16 13:3,6 41:20	26:12,12,14,14	<b>people</b> 60:25
73:17 75:2	74:5,16,22,25	41:22 42:8 73:23	27:2,6,7,8,9,10,10	percent 30:8,10
okay 8:10,11,18,25	75:10,17 76:7	84:17,20 85:8,14	27:19 28:2,6,10	39:24 41:18 49:7
9:5,7,9,11,13,20	77:17,20 78:4,7	85:19 87:6 88:2	28:11,13,17 33:8	49:15 56:5 74:1
9:23 10:1 12:5,11	78:15 79:7 80:6	89:2,6	34:14 38:12 41:13	percentage 41:16
13:21 14:4,7,14	81:20 82:2,8	O-b-e-r-l-i-n 7:25	41:15 45:7,10,11	42:25 49:8,10
15:25 16:3,24	83:16,21 84:15		45:17,20 46:2,6	73:21 74:10
17:3,6,11 18:2	85:19,22 86:2	P	46:18 47:1,3,16	Perfect 21:15
19:4,9 20:4,9,15	87:2,15 88:12,17	packaged 19:22	48:17 49:1,4,5,5,9	perfectly 35:23
21:1,6,6,7,12,15	88:23 89:1,6	40:12 49:23 50:1	50:9,10,13,17	42:6
22:1,22 23:24	once 16:20 88:21	50:7,8 51:3,5 58:2	51:23 52:10,19	<b>period</b> 14:7 17:20
24:2,8,14 25:3,12	ones 50:2	58:9	62:8,9,10,11,12	18:16 30:14,16
25:14,17 26:4,9	ongoing 27:4	packaging 29:18	64:13 71:7 73:10	37:6 39:2 48:21
26:11 27:18,18,22	open 34:19,21,23	37:18	73:11,14,17,17,22	65:6,19,22 74:9
28:4,9,12,16 29:2	34:25 35:18 57:4	<b>PAGE</b> 4:2,9 92:5	74:17,17,18,19	74:23 79:13
29:24 30:3,9,19	57:5	93:5	75:3,4,5	periods 35:3
31:2,7,11,21 32:5	<b>opened</b> 18:18	<b>pages</b> 90:4	paint-production	perjury 89:13
32:24 33:24 34:2	open-kettle 76:23	<b>paint</b> 3:11,12 7:6	12:12	Perkins 26:6
34:25 35:2,10,20	open-topped 80:23	16:16 17:9,17,24	paint-related 65:25	Perpetuate 1:4
35:25 36:6,10,15	operate 57:2	25:3,15,19 26:13	paper 45:25	6:10
36:22,25 37:5,21	operations 18:22	27:23,23 28:5	papers 16:13	person 70:7
38:4,9,16,20,23	18:23 24:8 55:7	29:7 31:16 37:12	<b>pardon</b> 18:3 24:19	pesticide 84:2,12
39:6,10,21 40:8	65:15	38:17,18 40:13,16	31:6 41:11 66:5	<b>pesticides</b> 53:2,8,11
40:11,18,21,24	opposed 68:6	40:19,20,22 41:6	<b>part</b> 16:21 17:9,12	83:24
41:2,9,9,15,19	order 59:25 68:1	41:8,16,24 42:5	24:3 47:17 68:25	<b>Petition</b> 1:4 6:9
42:3,19 43:6,14	<b>ordered</b> 59:20 78:1	42:22,23,23 43:1	participate 17:15	PETITIONER 2:2
43:17,23 44:1,3,9	ordering 59:17	43:1,8 44:12,13	particular 30:19	<b>ph</b> 1:24
44:14,20,24 45:9	77:24	44:25 45:2 47:17	68:1	phased 38:24

			ĺ	İ
<b>phone</b> 85:3,23	poorly 19:4	25:25 27:4 36:1	<b>Professional</b> 1:19	87:3
<b>phthalic</b> 15:8 36:17	porcelain 11:21	38:17,18 49:23	91:4	questions 5:12 9:5
picked 54:7,11,17	13:12,15	50:23 52:22 58:5	progressively	21:4 54:6 67:18
54:25 79:21	<b>portion</b> 30:3,6,11	59:11	74:14	67:21 68:1,3
<b>pickup</b> 43:11 54:3	39:16 49:3 56:2	processed 10:22	promise 13:10	84:16,18,25 85:10
<b>pigment</b> 46:9 70:25	position 68:11	12:19	<b>proper</b> 17:23	86:2 90:6
71:4	70:11	processes 20:23	properly 69:6	quick 20:21 49:7
Pigmentation	positive 9:19	36:5	proportion 28:8	quickly 85:16
52:16	possible 69:16	processing 11:9	propose 89:7	quite 53:7
<b>pigments</b> 15:5 46:5	<b>Possibly</b> 39:14 83:1	<b>produc</b> 12:13	propounded 90:6	
46:8,10 47:20,23	84:9,10,11	produced 14:15	provide 82:24	R
48:14,14,20 49:11	<b>pounds</b> 39:23	50:10,21 58:1	89:13	<b>rail</b> 55:19
49:19 52:17 57:24	<b>poured</b> 40:19,22	producing 50:15	<b>provided</b> 72:12,17	railroad 55:8,12,15
<b>pints</b> 50:2	58:21	<b>product</b> 10:19 11:1	84:12 89:10	ral 59:8
pipelines 12:6	Practically 47:22	11:21 15:8 31:5	providing 84:8	<b>ratio</b> 74:16
places 50:15,16	<b>present</b> 6:14 30:2	37:18 38:19 39:13	<b>PRP</b> 2:15 6:22	raw 14:25 20:15
67:22	42:11 43:15 60:3	40:12 50:25 51:5	67:17	25:14 37:5 46:1
<b>plant</b> 18:18,22,24	60:11,16 71:23	52:2,7 55:9,18,23	publication 16:17	47:12 57:7
19:13 20:8 21:9	86:8	55:24 56:4 58:8	16:22	read 90:4
33:1 34:3,9,15,18	preservative 53:6	62:3 69:10,17	publicly 15:18	real 85:8
45:10,18 46:12	83:24	78:24 87:18	<b>pulled</b> 28:23	<b>really</b> 73:19
48:13 49:20,24	preservatives 53:9	production 5:6	purchasing 77:22	reason 8:16
50:11,18 51:21	53:10,14,15	12:13,21,25 13:11	77:23 83:14	reasonable 43:19
52:1,25 53:3,23	<b>president</b> 23:19,21	14:5,6,8 18:7	purpose 82:5	43:20
55:9,21 56:15,16	32:11	19:10 20:9,10,11	purposes 35:9	reasons 86:16
56:23 57:5 58:13	presume 40:23	25:15 35:2,4,4,11	<b>put</b> 16:17 18:12	recall 8:4 16:23
58:16 59:18 60:4	59:3	35:17 36:8,11	43:10 54:24	29:20 30:23 35:1
60:11 62:14,19,25	<b>Pretty</b> 9:22 14:13	37:8,13,23,24	putting 28:21	38:22 54:23 58:7
64:3,23,24 68:5,6	74:24	38:17 40:13,16	<b>P.C</b> 2:3,16	59:8,22,24 60:7
68:8,9,12,16 73:3	previously 37:11	42:4 45:1,3 49:4	<b>p.m</b> 89:24,25	60:18 61:6 66:25
77:6,13,16 78:12	primarily 13:21	49:22 50:23 52:22	<b>P.O</b> 3:9	71:20,23,24 72:4
82:21 85:1 86:3,8	14:8 16:14 21:10	52:25 56:4 57:16		72:17 74:5 75:7
88:12	68:3	57:22 58:5,12	Q	75:14 79:14,20
<b>plants</b> 19:6 33:5,6,7	<b>Prior</b> 61:9	59:9,11 60:13	qualitative 10:7	80:8,9,17,22
62:17 63:10,11,11	<b>pro</b> 55:23	63:9 76:22 78:24	quantitative 10:6	83:18 84:2,4 86:7
65:10	probably 39:13	79:4	quantities 29:21	86:25 88:8,17,23
<b>please</b> 6:14 7:23	40:9 41:18 42:1	products 10:20	34:11 42:1,18	receive 60:21
8:16,21 9:4,8 40:4	47:14 53:25 58:10	13:22 14:24 17:24	quantity 39:19 41:2	received 29:19
70:19 77:13 83:5	73:16 75:5 79:15	19:5,7 33:9 47:11	41:5	88:12
PLLC 3:3	81:11	47:13,15,21 48:10	quarts 50:2 58:10	Recess 51:14 67:7
<b>plus</b> 31:20 46:10	Procedure 91:10	51:20,24,25 52:3	question 8:22,24	recollection 77:7
point 8:15 9:7	proceedings 91:11	52:5 61:3,5 62:5,7	9:3,10 13:3 19:4	reconditioning
35:22 52:24 63:18	91:15	64:14 66:1 69:13	42:15 46:25 48:19	43:11
76:5	process 11:10	69:24 71:1,20	53:7 67:23 73:23	record 6:4 7:8,19
points 11:3,4	12:12 14:12 20:4	72:8 73:6,9,21	73:25 87:8 88:2	7:20,24 8:24 13:7
Polyvinyl 52:11	20:14,22 25:15,23	74:11 83:9	questioning 86:16	51:12,16 67:2,5,9
			l	l

70:19 89:24 91:14	36:8 65:14 76:25	31:9,22 32:2,2,7,8	55:25 58:19 59:6	15:12,13,15 38:14
recorded 89:23	77:18 78:4	32:13,21 33:15,19	88:11,14,15	40:8 57:10,12,13
refer 81:13,18	responsible 36:10	34:9 35:15,17	Shorthand 1:20	57:13
referred 68:5	61:19 77:24	37:13 40:1 44:17	91:3	solvent-based
referring 80:12	<b>retired</b> 65:1,2	44:21 45:19 47:5	<b>shut</b> 35:7	48:17
refresh 77:7	returned 88:22	48:13,21 50:13	sic 25:13 70:21	somebody 21:23
refrigerators 11:25	rewards 60:21	55:4 56:13,20	side 80:19,20	sorry 12:3 13:5
26:8	<b>Ri</b> 70:9	59:16 60:1 61:11	sided 79:23 80:4	21:2 22:15,20
regard 72:22	<b>Richard</b> 38:8 70:9	62:17 65:4,10,11	sides 80:7,18	23:16 32:12 40:3
<b>region</b> 68:11 77:6	70:10 78:18	65:15,17,18,20	siding 26:15 27:10	45:14 48:4 53:21
Registered 1:19	<b>right</b> 17:5 32:10	68:4,12,18,24	55:8	55:13 57:19 61:24
91:4	36:12,14 44:24	73:12 74:6 75:25	<b>sign</b> 89:11	63:5 68:10 74:25
<b>Reilly</b> 10:12,17,20	51:4,6 63:7 64:16	76:5	<b>signed</b> 89:16	78:11 79:25 80:1
11:12,15	64:20 68:2,9 69:2	<b>Savage</b> 38:8 70:8,9	silica 48:2 52:17	83:2,12
relate 68:3	70:4,5,14 71:1	70:10	similar 25:24 26:9	sort 32:24 49:18
release 29:5	78:18 79:10,16	saw 69:5	26:10	67:22 86:12,13
relevance 86:17	80:12 83:25 84:8	<b>saying</b> 27:25	<b>similarly</b> 51:1 59:4	<b>sound</b> 43:20 51:10
relieved 89:8	85:7,14 88:6	school 9:20,23 10:8	<b>sir</b> 87:12	soy 75:5
remember 54:15	89:20	<b>Seattle</b> 3:4 31:19	site 50:11,18,19,25	soybean 75:6
76:9 77:9 78:21	road 10:23	35:14,15 50:14	58:4 66:19,20	speak 67:20 85:20
replaced 70:7	roads 25:1	61:20 62:14 68:17	situation 47:17	speakerphone
report 79:7	<b>Robert</b> 3:13 7:5	68:23,23	six 64:24	85:23
reported 21:24	role 17:25	second 55:3	<b>Skin</b> 81:19	speaking 70:4
22:2 91:11	roller 26:5	Section 91:10	skins 81:3,9,21	80:22 85:23
<b>reporter</b> 1:19,20	<b>room</b> 62:6	see 23:9 40:24	<b>slightly</b> 19:21,21	<b>spec</b> 69:10
7:9 10:15 48:3	<b>Rosenthal</b> 3:3 6:24	69:12 79:5 85:6	<b>Slough</b> 2:15 6:22	specifically 42:16
83:2 89:8 91:4,4	6:24,25 84:19	sense 42:10	67:17 87:5	80:8
REPORTER'S	roughly 27:14 80:9	sent 40:23 63:1	slowly 38:24	specifications
91:1	<b>RO45460</b> 29:13	88:18,20,21,21	small 30:3,11 42:1	14:10 23:10 61:1
represent 7:21	<b>RPR</b> 91:22	separate 44:19	42:18	61:1,2 69:11
67:16	rstetson@kellym	serve 19:1	smaller 18:24	speculate 35:24
REQUEST 5:6	3:15	served 55:17	34:11	<b>Speculation</b> 69:19
residue 81:13,15	rules 67:19	serviced 55:11,14	society 16:6,8,14,19	spell 7:23 10:14
82:3	running 69:6 77:15	set 54:2 69:9	16:24 17:8,12	70:19 83:5
resin 29:4,6,7,25	<b>R&amp;D</b> 11:6	seven 34:19 57:4	23:14,14,22 24:2	spelling 70:22
30:7,10	<b>R-e-i-l-y</b> 10:16	Seventh 3:4	24:3 32:9,10,13	spent 13:25 18:17
resins 14:18 20:19 20:20 38:14 44:6	S	shake 85:6	32:15 60:23,24,25	spirits 40:10
	S 1:18 91:22	sheet 90:8	sold 15:25 37:16	<b>spoil</b> 53:16
44:10,15,21 87:17	sacks 72:14,15	Shell 3:7,8 7:1 shells 12:6	38:19 63:21 64:1	spread 74:11
<b>respect</b> 13:21 26:11 37:21 73:24 89:9	safekeeping 89:14	Sherwin-Williams	solid 26:14 solids 57:11	stability 28:20 stacked 80:14,16
respond 85:5	sale 33:7 37:19	64:1,3,21,22,23	solid-based 27:8	80:18 81:3 82:4
respond 83.3	40:12 49:23 50:7	shift 44:24 51:7	solution 39:24	stage 9:19
23:1 31:25 62:23	50:8 58:2	67:23	solvent 12:10 15:8	stage 9.19 standing 80:18
77:11	San 2:18 3:14	ship 55:19	29:5 40:7 46:22	start 11:14 13:4
responsibility 32:3	23:19,20 28:3	<b>shipped</b> 29:1 50:14	solvents 14:19 15:5	48:1 89:3
1 coponsionity 32.3	,	5111ppcu 27.1 30.14	BUITCHES 17.17 13.3	70.1 07.3
	1	1	1	1

<b>started</b> 8:10 11:16	submedicinal	tape 85:10 89:4	78:9,14 80:19,21	<b>Tracee</b> 2:7 6:20
22:9,24 27:17	10:25	tar 10:13,13,16,17	82:18	<b>trade</b> 15:25 16:1,4
Starting 45:11	subscribed 91:17	10:20,22,23,24	thinking 77:5	16:21,25,25 17:7
state 3:7 7:2,23	substance 90:7	11:10,12,15	<b>Thomas</b> 2:7 6:20	23:12,24 32:6,17
90:13 91:5	<b>Suite</b> 2:8,17 3:4	<b>Tax</b> 35:9	6:20 75:24 76:2,3	59:23 60:20
<b>States</b> 1:1 6:12	superintendent	technical 16:13	76:7 86:22	traffic 24:23,24
statutory 89:8	76:15,16	31:23 32:1 63:7	thousand-gallon	58:17
steel 31:1	supervision 91:14	65:23	36:5	<b>Trager</b> 77:21 78:7
stenographic 7:8	supervisor 31:23	technically 79:7	<b>Thrall</b> 1:18 7:9	transcribed 8:21
stenographically	32:1	Technologies 1:24	91:3,22	91:12
91:12	supplied 29:9	6:6	three 2:7 33:6,7	<b>transcript</b> 89:10,10
<b>Stetson</b> 3:13 7:5,5	71:20 84:5	<b>Technology</b> 16:7,8	68:15,16,16 69:3	89:12,14,16
stipulated 89:18	supplies 82:24	23:15,22 24:3	69:5	transcription 90:5
stipulation 89:7	SUPPORT 5:1	telephone 84:17	till 64:3 65:1	91:13
STIPULATIONS	supposed 9:10	TELEPHONIC	time 6:7 12:9 13:25	transferred 18:17
5:9	sure 9:4 13:7,25	3:1	14:2,7 17:20	18:20 31:14,15
storage 56:3 60:10	16:19 26:20 51:22	tell 15:12 35:23	18:16 21:19 27:19	62:18,24 63:22
60:16	66:18 69:10 77:15	55:1 68:10 77:13	28:4 30:2,14,16	transformers 60:3
store 55:18	78:14 85:3,12	87:14 88:5	31:25 32:1,21	60:5,8
stored 40:15,17	swear 7:10	ten 18:10 27:13	34:2,6,9,17 35:3	transition 27:20,22
43:4 50:22,25	switched 47:18	term 81:8,12 82:9	35:17 36:25 37:6	28:1,2 39:2 49:1
55:24 88:9,11	sworn 7:13	test 8:17 69:9	38:2 39:2 40:3	transportation
street 1:16 2:13,17		testified 7:13 21:17	41:25 42:12 45:22	73:2
3:13 22:21 31:13	T	37:12 68:2 69:12	48:16,21,25 49:10	treated 43:6 59:3
32:22,25 33:3	take 8:13,15,18	70:14,24 73:19	49:16,16 51:12,16	TREGLIA 2:12
34:3,14 44:25	31:15 51:8 53:11	75:17 79:20 83:23	52:12 56:12,15	tremendously 37:4
45:10,18 46:12	60:7,15 74:9	84:7	59:22 65:6,19,22	39:1
47:11 49:20,24	87:13	testify 8:5,8	65:22 67:5,9 70:4	<b>trim</b> 26:15
50:11,18 51:21	taken 27:8 85:22	<b>testimony</b> 1:4 6:10	71:23 73:17,24	trouble 85:18
52:1,25 53:2 55:4	91:15	87:23 91:11,15	74:12 78:9,13,17	<b>truck</b> 44:1 54:13,17
55:5,6,11,14 56:3	takes 63:15	testing 10:18 11:1,7	79:13,19 87:10,24	79:21 80:7,9
56:7,11,16,19,23	talc 27:6 48:8,9	11:8	89:23 91:15	trucking 73:3
56:25 57:2,5 58:2	52:17	<b>Texas</b> 2:8 3:9	times 67:24	truckload 43:18
58:6,12,13,15,16	talk 8:23 9:3 86:17	thalloid 57:10	timewise 18:13	trucks 54:11 58:18
59:6,14,18,18	talked 24:5 44:9	<b>Thank</b> 41:22 73:5	tin 46:15	72:4 81:3 82:4
60:4,4,11,12 68:4	50:20 51:19,22	80:12 84:16	titanium 46:10	true 74:22 91:14
68:6 72:8,24 73:7	52:9 54:1 55:2	thickeners 52:19	47:25 52:16	try 85:12
73:21 76:1,8,18	60:19 85:1	thickenings 52:19	title 21:19 22:23	<b>trying</b> 42:10 67:20
82:14,14	talking 13:4 26:18	thing 45:24 59:21	31:21 32:14 61:17	86:13
<b>strictly</b> 15:19 65:23	26:20 37:2 41:7	71:2	today 8:5,8,15,21	tthomas@valhi.net
<b>Strike</b> 74:25	41:12 50:4 80:1	things 24:5 77:15	9:3,7	2:9
<b>stucco</b> 27:10	87:13	think 9:18 11:13	today's 6:6 89:21	TUESDAY 6:1
<b>study</b> 10:2	tank 19:19,20	27:25 34:22 35:5	89:22	two 11:13 13:22
styrenated 46:19	28:22 55:8	43:13,22,23 56:10	top 81:10,19,22	18:17 19:6 33:5
46:20	tanks 28:20,21	57:3,6 60:6 62:13	topic 51:8 67:23	36:3 63:2 67:3
styrene 52:11	60:10,16	72:18,20 74:13	totally 18:10	77:4,20

two-minute 85:15	varnish 17:17 18:7	wait 22:20	we're 41:7,12 70:4	write 61:1,2
type 11:25 15:14	38:9,11,15,15,16	walt 22:20 wall 27:10	We've 51:9,22	wrote 39:23
45:23	38:21,24 39:7,22	want 8:18 9:4 13:6	<b>WHEREOF</b> 91:17	
types 27:19 45:19	40:6,9,12,18,22	35:24 51:21	white 26:7 27:6	X
46:8,23 47:23	40:24 41:3,6,13	war 12:1 14:5,8,12	48:1 82:9	<b>xylol</b> 62:10
49:5	41:14,15,16 42:11	61:8	white-lead 28:2	
<b>T-a-r</b> 10:16	42:13,16,17,20	warehouse 55:9,17	white-lead-based	Y
	44:3,17 46:13,14	55:21	28:5	<b>yeah</b> 7:5 42:16 50:6
U	54:2 56:8 65:6	<b>warmup</b> 20:21	win 70:22	50:20 58:25 65:3
<b>Uh-huh</b> 54:4 67:25	68:5,18 76:15,16	warning 17:23	witness 2:11 5:3	72:16 74:21 76:10
ulexites 82:22	76:21,22	85:15	7:10 9:1 13:5	80:5
ULICK 3:3	varnishes 24:18,20	wartime 19:10	41:21 48:5 64:10	<b>year</b> 14:2,3 49:12
underground	24:21 33:6,7,8	washing 11:24	68:14 71:9,16	years 9:16 11:13
60:10	34:8,12 37:21	Washington 3:4	73:1 74:1 81:6,15	18:11,17 27:13
understand 8:12	38:1,25 40:4 44:7	17:17	83:3 84:14,18	63:14 74:6 78:8
9:2 13:17,24	46:12,14,17,17	wasn't 20:13 21:5	85:18,21,25 88:4	78:16 79:11
16:18 21:8 26:19	47:8,16 50:21	23:4 37:24 87:24	91:7,17	<b>Yosemite</b> 2:15 6:22
30:9 31:1,7,24	51:23,24 59:10	waste 54:17,21	wood 53:6 83:24	67:17 87:5
37:11 38:16 63:12	varnish-based	wastes 54:20	worded 19:4	
73:5 88:2	41:24 42:4 43:1	water 74:14,15	words 23:9	$\frac{\mathbf{Z}}{\mathbf{Z}^{2}}$
understanding	<b>VEDOC</b> 11:23 16:2	water-based 12:7	work 9:8,23 13:21	<b>Z</b> 3:8
25:19 30:24 33:21	vegetable 15:11	27:9 47:15 52:5	22:6 61:9,12	<b>zinc</b> 27:6 72:7,9,10
34:3 43:12 85:18	36:20,21 39:6,9	52:10,19 62:8	62:16 63:17,24	72:17,20
understood 9:5	vehicle 68:19	73:10,11,17	64:11,12 76:18,20	0
63:10	vehicles 52:14	waxes 46:22	78:7 86:14	08033 2:4
<b>United</b> 1:1 6:12	VERIS 3:3	way 10:24 11:9	worked 11:22	00033 2:4
<b>Univar</b> 3:2 6:25	Vernon 22:21 86:5	42:20 43:7 51:1	17:23 18:10 34:6	1
<b>urban</b> 73:3	86:19 87:1	Waymeir 83:21	34:9 52:1 56:12	<b>10:09</b> 1:17 6:2,7
urea 14:18 46:4	versatile 11:23	week 34:19 57:4	60:25 62:18 63:22	100 42:2
59:21,23 84:8	versus 13:22 39:17	weekends 34:21	63:23 64:12,22,23	<b>104(e)</b> 86:19
USA 3:2 6:25	39:18 49:4 56:4	went 10:25 19:24	65:5,20 76:20	<b>11:14</b> 51:13
use 33:5,6,7 34:12	video 6:8 89:21	23:8 46:14 48:16	85:2 86:3	<b>11:25</b> 51:17
38:3 51:1,2 59:18	videographer 6:4,5	54:9 61:15 72:9	working 10:9,11,12	<b>11:49</b> 67:6
81:8	6:23 7:3,7 51:11	87:16	10:18 11:14,16	<b>11:52</b> 67:10
	51:15 67:4,8 85:9	weren't 24:22	12:16 17:4 22:9	<b>11594</b> 91:22
V	89:20	37:22 41:13 44:14	22:11 23:11 32:6	<b>12</b> 1:6 6:11
<b>vague</b> 73:23	Videotaped 1:15	44:20 88:22	36:6,7 59:16 60:1	<b>12:21</b> 89:24,25
van 2:17 4:4 6:21	View 76:4	west 31:15 32:3	62:8,12 64:18	<b>1212</b> 75:24
6:21 67:13,16	Vinyls 25:9,10,11	35:12 37:13 61:13	65:11,21 66:24	<b>1400</b> 3:4
68:21 69:20 71:11	viscosity 11:3	62:22,24 63:1,3,5	86:8	<b>15</b> 51:9 74:1
71:17 72:3 73:4	<b>volume</b> 34:12 35:16	63:11,12,13 78:24	<b>World</b> 12:1	<b>169</b> 1:6 6:11
74:2 78:3 80:3	38:25 50:14	82:21	wouldn't 28:7	<b>1700</b> 2:8
81:7,17,24 83:4	V-y-n-a-l 25:13	western 68:11 77:6	35:19 41:4,14	<b>1800</b> 2:17
84:15 89:18		Wetting 52:20	50:15 53:15,18	<b>1809</b> 3:4
various 10:24	W	we'll 17:11,11 21:6	54:19	<b>1937</b> 9:18
16:11 55:25 63:10	<b>W</b> 2:17	23:20 67:24	wow 76:10	<b>1940</b> 18:14
i .				

				Page 10
10.11.				
<b>1941</b> 9:18	<b>262-4000</b> 2:18	<b>77252-2463</b> 3:9		
<b>1948</b> 18:20 19:9		<b>794-4000</b> 2:14		
21:16	3	<b>795-2121</b> 2:5		
<b>1950</b> 18:14 21:16	<b>3,000-gallon</b> 36:4			
27:14	<b>3113</b> 22:20	8		
<b>1950s</b> 88:1		<b>80</b> 1:6 6:11 56:5		
<b>1960</b> 27:14 88:1	4	<b>83</b> 64:5		
<b>1960s</b> 87:12,23	<b>415</b> 2:18	<b>84</b> 4:5 64:5,9 65:1		
<b>1961</b> 31:8 74:7	<b>456</b> 2:17	<b>856</b> 2:5		
<b>1970</b> 33:22,23 35:8	<b>48</b> 18:21	<b>877.370.3377</b> 1:24		
61:12 62:17 65:11				
65:16 74:7	5	9		
<b>1974</b> 64:6	5 39:23	<b>9</b> 1:11 6:1		
<b>1977</b> 63:20 64:2,7	<b>5/12/1919</b> 8:2	<b>9th</b> 1:16 2:13 6:6		
64:15,18	<b>50</b> 18:14 41:18	<b>917.591.5672</b> 1:24		
<b>1978</b> 63:15	49:15	<b>92614</b> 2:13		
<b>1984</b> 64:11 65:2,8	<b>50s</b> 30:18,25	<b>94070</b> 3:14		
1704 04.11 03.2,0	<b>50-pound</b> 72:14,15	<b>94104-1251</b> 2:18		
2	<b>500-gallon</b> 28:22	<b>949</b> 2:14		
<b>20</b> 30:8,10	<b>51</b> 27:17	<b>972</b> 2:9		
<b>20-feet</b> 80:10	<b>535-6006</b> 3:5	<b>98101</b> 3:4		
<b>200</b> 42:2	<b>5430</b> 2:8	<b>987</b> 3:13		
<b>2012</b> 1:11 6:1,6	<b>5460</b> 29:12			
90:11 91:18	<b>55-gallon</b> 40:17			
<b>206</b> 3:5	50:5 71:16 72:23			
<b>2094</b> 91:10	76:25 77:18			
<b>2240</b> 22:18 31:13	<b>56</b> 2:4			
<b>23rd</b> 91:18				
<b>233-1700</b> 2:9	6			
<b>24</b> 34:23 39:24 57:2	<b>60</b> 41:18			
	<b>60s</b> 39:5			
<b>24th</b> 31:13 32:25	<b>61</b> 27:15 31:10			
33:3 34:2,14	33:20,24			
44:25 45:10,18	<b>610-4314</b> 3:14			
46:12 47:11 49:20	<b>62</b> 79:18			
49:23 50:11,17	<b>63</b> 79:15,17			
51:21 52:1,25	<b>650</b> 3:14			
53:2 56:15,22	<b>67</b> 4:4			
57:5 58:5,13,15				
59:18 60:4,11	7			
68:3,24 72:8 73:7	<b>7</b> 4:3			
73:21 82:13	<b>70</b> 33:20			
<b>241-5403</b> 3:10	<b>713</b> 3:10			
<b>2463</b> 3:9	<b>74</b> 62:18			
<b>25</b> 49:15	<b>75</b> 49:7			
<b>26th</b> 22:20	<b>75240-2697</b> 2:8			
<b>2603</b> 1:16 2:13	<b>77</b> 63:16,21 64:9			
I	•	•	•	